

Profile

Which Boards would you like to apply for?

Historic Preservation Commission: Submitted

Please select your first Board preference: *

☒ Capital Area Workforce Development Board

Please select your second Board preference: *

☒ Yates Mill Park Advisory Board

Please select your third Board preference: *

☒ Open Space and Parks Advisory Committee

Please select your fourth Board preference: *

☒ Greater Raleigh Convention and Visitors Bureau

Please select your fifth Board preference: *

☒ Centennial Authority

Please select your sixth Board preference: *

☒ Historic Preservation Commission

Samantha

First Name

Graham

Last Name

1604 Ella Wiggins Way

Street Address

Suite or Apt

Raleigh

City

NC

State

27603

Postal Code

What district do you live in?

None Selected

Mobile: (828) 329-0151

Primary Phone

Home: (828) 329-0151

Alternate Phone

samrjackson@gmail.com

Email Address

NC State University Institute for
Emerging Issues

Employer

Policy and Program Manager

Job Title

If you live in an Extraterritorial Jurisdiction Area, select Yes:

☐ Yes ☒ No

In order to assure countywide representation, please indicate your place of residence:

☒ Raleigh

Interests & Experiences

Why are you interested in serving on a Board or Commission?

I have always loved serving my community and working to make the place I live a desirable and equitable place for all. I currently work across the state in community development and would like to focus some of that effort more locally.

Work Experience

Institute for Emerging Issues, NC State University Policy and Program Manager, Digital Inclusion Initiative Lead, September 1, 2022 - Present Office of Outreach and Engagement, NC State University Innovative Engagement Program Manager, July 1, 2016 - August 31, 2022 Industry Expansion Solutions, NC State University Community Strategy Program Manager, November 1, 2014 - June 30, 2016 NC Broadband, North Carolina Department of Commerce Community Outreach Coordinator January 1, 2012 - October 31, 2014 e-NC Authority, North Carolina Rural Economic Development Center Broadband Outreach Coordinator July 20, 2010 - December 31, 2011

Volunteer Experience

Loaves and Fishes Board of Directors and Development Chair November 2014 - July 2021 Junior League of Raleigh 2014-2017 First Year Active Award for work with Brentwood Boys and Girls Club, 2016 Docent with Joel Lane Museum House 2011

Education

Clemson Master of City and Regional Planning 2010 The University of North Carolina at Chapel Hill BA, Geological Sciences, minor in City and Regional Planning 2008

Comments

I am very interested in contributing to community development through board work, particularly in economic development, historic preservation, and open space preservation.

Upload a Resume

If you have another document you would like to attach to your application, you may upload it below:

Please upload a file

Demographics

Samantha Graham



Date of Birth

Gender *

☒ Female

Ethnicity *

☒ Caucasian

Other

How did you become aware of Wake County volunteer opportunities?

☒ County Website

If you selected "Other" above, how?

Please upload a file

ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

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Samantha Graham

Profile

Which Boards would you like to apply for?

Historic Preservation Commission: Submitted

Please select your first Board preference: *

☒ Historic Preservation Commission

Please select your second Board preference: *

☒ Open Space and Parks Advisory Committee

Please select your third Board preference: *

☒ Library Commission

Please select your fourth Board preference: *

☒ Greater Raleigh Convention and Visitors Bureau

Please select your fifth Board preference: *

☒ City of Raleigh Planning Commission

Please select your sixth Board preference: *

☒ Planning Board

Thomas	B	McBrayer
First Name	Middle Initial	Last Name

408 E Hargett Street, #131	PO Box 2688	
Street Address	Suite or Apt	
Chapel Hill	NC	27601
City	State	Postal Code

What district do you live in?

None Selected

Mobile: (828) 850-9163	Business: (919) 962-6082
Primary Phone	Alternate Phone

tbmcbayer@northcarolina.edu
Email Address

The University of North Carolina System	Associate Secretary of the University
Employer	Job Title

If you live in an Extraterritorial Jurisdiction Area, select Yes:

☐ Yes ☒ No

In order to assure countywide representation, please indicate your place of residence:

☒ Raleigh

Interests & Experiences

Why are you interested in serving on a Board or Commission?

I want to give back to my community and make a positive impact. I think citizen advisory boards are a great way to contribute. I believe my experience and fresh perspective would be an asset to a board.

Work Experience

Associate Secretary of the University - The UNC System - June 2022-Present Executive Assistant - The University of North Carolina System - June 2021-June 2022 Staff Assistant/Field Director - US House of Representatives - May 2017-May 2021 Management Intern - City of Hickory City Manager's Office - May 2020-August 2020 Management Intern - City of Conover City Manager's Office - May 2018-August 2018

Volunteer Experience

City of Hickory Public Art Commission - January 2013-June 2015

Education

Master of Public Administration - Appalachian State University - 2020 Bachelor of Science, Political Science - Appalachian State University - 2019

Comments

I hope to be able to serve.

[Resume_Thomas_McBrayer_2022.docx](#)

Upload a Resume

If you have another document you would like to attach to your application, you may upload it below:

Please upload a file

Demographics



Date of Birth

Gender *

☒ Male

Ethnicity *

☒ Caucasian

Other

How did you become aware of Wake County volunteer opportunities?

☒ County Website

If you selected "Other" above, how?

Please upload a file

ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

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THOMAS B. MCBRAYER

408 E HARGETT ST APT. 131 RALEIGH, NC 26701
828.850.9163 | THOMMCBRAYER@GMAIL.COM |
[linkedin.com/in/thomasmcbrayer](https://www.linkedin.com/in/thomasmcbrayer)

EDUCATION	Master of Public Administration Appalachian State University, Boone, NC GPA: 3.86/4.0	December 2020
	Bachelor of Arts, Political Science Appalachian State University, Boone, NC GPA: 3.5/4.0	May 2019
RELATED WORK EXPERIENCE	Associate Secretary of the University , The UNC System Office <ul style="list-style-type: none">• Manages the UNC System Code and Policy Manual• Reports Code/Policy Manual Amendments to the Board of Governors.• Makes technical corrections and prepares amended regulations/guidelines for signature by the President of the System.• Plans, organizes, and facilitates meetings of the UNC System Board of Governors each month.• Ensures the UNC Board of Governors are meeting their statutory obligation to fill boards and commissions by providing the board members the necessary information to make appointments.• Manages/updates a database with information about UNC Institution's Boards of Trustees and other affiliated entities.	June 2022- Present
	Executive Assistant , SVP of Strategy & Policy, The UNC System Office <ul style="list-style-type: none">• Persuaded, prioritized, and negotiated to build cooperation and consensus with a variety of internal and external contacts and groups.• Represented the Senior Vice President on a variety of subjects; served on various committees; and attended meetings in SVP's absence.• Prevented scheduling conflicts or anticipates and resolves conflicts, competing with SVP's schedule and/or priorities.• Independently researched, developed, and composed presentation materials and speeches for the SVP in a variety of settings.• Advised subordinate unites on fiscal matters such as budget planning, budget analysis, and funding sources in conjunction with the Senior Vice President.• Managed the overall budget for the SVP by reporting expenditures and allocation of funds and sources on a regular basis.	June 2021-May 2021

**OTHER
EXPERIENCE**

Staff Assistant, US House of Representative District
Office, Boone, NC

May 2017-June 2021

- Assisted constituents with issues including, but not limited to, passport expedition, social security disability, and general questions about government services
- Traveled with the Congresswoman to events
- Staffed Veterans Information Sessions
- Acted as a personal aide to the Congresswoman
- Managed and created content for the Congresswoman's Facebook, Instagram, and Twitter accounts
- Attended meetings with dignitaries at all levels of government including but not limited to the Speaker of the US House, North Carolina Governor and Lt. Governor, and United States Senators
- Managed the regional Congressional office by greeting visitors, answering phone calls, etc.

Profile

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Historic Preservation Commission: Submitted

Please select your first Board preference: *

☒ Yates Mill Park Advisory Board

Please select your second Board preference: *

☒ Historic Preservation Commission

Please select your third Board preference: *

☒ Swift Creek Volunteer Fire Department Board of Trustees Firemen's Relief Fund

Please select your fourth Board preference: *

☒ Jury Commission

Please select your fifth Board preference: *

☒ Fairview Rural Fire Department Inc. Board of Trustees Firemen's Relief Fund

Please select your sixth Board preference: *

☒ Fire Commission

BrianDLehrschall

First NameMiddle InitialLast Name

2708 Rolling Oaks Ln

Street AddressSuite or Apt

RaleighNC27606

CityStatePostal Code

What district do you live in?

☒ District 4

Home: (919) 810-2433

Primary PhoneAlternate Phone

blehrschall@gmail.com

Email Address

Disabled

EmployerJob Title

If you live in an Extraterritorial Jurisdiction Area, select Yes:

☐ Yes ☒ No

In order to assure countywide representation, please indicate your place of residence:

☒ Unincorporated Wake County

Interests & Experiences

Why are you interested in serving on a Board or Commission?

I have experience serving on the historic preservation commission. I have a great interest. I want to serve my community. I have also served on the Yates Mill advisory board

Work Experience

I was employed for 5 years at the North Carolina General Assembly. I am currently a staff member at The Angus Barn and at Hertz Rental Car

Volunteer Experience

Boy Scouts of America District Vice chairman, Historic Preservation Commission, Yates Mill Board of Advisors

Education

Associate of applied science Wake Technical Community College

Comments

[Resume_for_Brian_Lehrschall.pdf](#)

Upload a Resume

If you have another document you would like to attach to your application, you may upload it below:

Please upload a file

Demographics


Date of Birth

Gender *

☒ Male

Brian D Lehrschall

Ethnicity *

☒ Caucasian

Other

How did you become aware of Wake County volunteer opportunities?

☒ Current Wake County Volunteer

If you selected "Other" above, how?

Please upload a file

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Brian Lehrschaal

5709 Baird Dr., Raleigh, NC 27606 Cell: (919) 810-2433: blehrschaal@gmail.com

Professional Profile

I am an Administrative Assistant with 5 years' experience. Areas of expertise include staying focused and organized. I am excellent at juggling multiple tasks and working under pressure. Broad industry experience includes research, writing, and spreadsheet design.

Qualifications

- Strong verbal communication
- Conflict resolution
- Notary Public
- Computer proficient
- Microsoft Office
- Reports generation and analysis

Experience

Telephone Concierge

The Angus Barn
November 2018- Present

- Answer multi line phone system
- Process customer requests and enter into reservation system
- Take customer orders for shipping
- Enter gift card orders

Assistant Campaign Coordinator

Paul Coble for Congress Raleigh, NC
October 2011 to May 2012

- Helped manage day to day operations of busy political campaign
- Answer telephone, email, and written communications
- Effectively controlled the release of proprietary and confidential information
- Accompany candidate to events and ensure the timeliness of his appearance

Legislative Assistant

North Carolina General Assembly – Raleigh, North Carolina
January 2007 to October 2011

- Managed day to day operations of busy legislative office.
- Answer telephone, email, and written communications.
- Clerked House Committee on Public Private Partnerships.
- Liaison with State Government staff in various departments regarding constituent issues
- Maintained email tracking database
- Effectively controlled the release of proprietary and confidential information
- Provided onsite training.

Education

Wake Technical Community College 2006

Raleigh, North Carolina, United States

Mechanical Drafting

Associate of Applied Science

President, Student Chapter of the Society of Manufacturing Engineers

Affiliations

- National Psoriasis Foundation- 2009 National Volunteer of the Year
- North Carolina Republican Party- Member, State Executive Committee 2002-2008
- Wake County Republican Party- Second Vice Chair 2006-2008
- Fred Smith for Governor- Campaign Volunteer
- North Carolina Republican Party- Intern 2004
- North Carolina General Assembly- Intern 2006
- Elizabeth Dole for US Senate, 2002 and 2008

Profile

Which Boards would you like to apply for?

Historic Preservation Commission: Submitted

Please select your first Board preference: *

☒ Raleigh-Durham Airport Authority

Please select your second Board preference: *

☒ Historic Preservation Commission

Please select your third Board preference: *

☒ Open Space and Parks Advisory Committee

Please select your fourth Board preference: *

☒ Commission for Women

Please select your fifth Board preference: *

☒ Planning Board

Please select your sixth Board preference: *

☒ Wake County Steering Committee on Affordable Housing

Kathy

H

Baumgaertner

First Name

Middle Initial

Last Name

10104 Old Warden Rd

Suite or Apt

Street Address

Raleigh

NC

27615

City

State

Postal Code

What district do you live in?

None Selected

Mobile: (919) 609-7577

Home: (919) 845-9710

Primary Phone

Alternate Phone

kbaumgaertner52@gmail.com

Email Address

RETIRED

Employer

Job Title

If you live in an Extraterritorial Jurisdiction Area, select Yes:

☐ Yes ☒ No

In order to assure countywide representation, please indicate your place of residence:

☒ Unincorporated Wake County

Interests & Experiences

Why are you interested in serving on a Board or Commission?

I want to support our community and help make it as good as it can be. I find since I retired I have time and an interest to do other things and supporting our community seems like a good use of my time.

Work Experience

I've worked in the engineering and environmental industry on military facilities, transportation projects, medical facilities and disaster response and recovery. I am also a certified instructor. Was Vice President of a large, international engineering corporation for more than a decade.

Volunteer Experience

North Raleigh Ministry Thrift Store Wake County Board of Elections Poll Worker (computer worker and judge)

Education

BS in Environmental Planning and MA in Coastal Planning

Comments

[Baumgaertner_K_resume.doc](#)

Upload a Resume

If you have another document you would like to attach to your application, you may upload it below:

Please upload a file

Demographics



Date of Birth

Gender *

☒ Female

Kathy H Baumgaertner

Ethnicity *

☒ Caucasian

Other

How did you become aware of Wake County volunteer opportunities?

☒ County Website

If you selected "Other" above, how?

Please upload a file

ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

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Kathy H. Baumgaertner

10104 Old Warden Rd
Raleigh, NC 27615

Areas of Expertise

- Project Management
- NEPA Compliance
- Environmental Permitting
- Training
- Environmental Impact Assessments
- Environmental Planning
- Socioeconomic Impact Assessments
- Business Management

Education

MA/Coastal Planning/1985/
University of Maryland
BS/Resource Management/
1979/University of Maryland, summa cum laude

AA/General Education/1976/
Montgomery College
Environmental Conflict Mediation/1985/Harvard School of Negotiation

Registration/Certification

2011/Certified Instructor/ National Highway Institute, Federal Highway Administration

Community Work

Stonebridge Neighborhood Roads Committee and Luminary Committee

North Raleigh Ministries, Thrift Store Volunteer
Wake County Board of

Overview

Ms. Baumgaertner has more than 32 years of experience managing environmental compliance studies and documentation for a variety of projects in both the public and private sector. She is adept at creating and managing multi-disciplinary teams for the preparation of sophisticated environmental and socioeconomic studies for clients nationwide. Areas of particular expertise include managing large, complex, and sometimes controversial NEPA projects, managing programmatic NEPA projects, designing and conducting cumulative impact analyses, conducting community impact analyses including for compliance with Executive Order 12898, Environmental Justice. She has provided these services for various Federal, State, and local agencies and private industry for a variety of project types including transportation facilities, military installations and related weapons facilities, mining operations, power line projects, pipeline projects, postal facilities, National cemeteries, coastal-dependent development, and for disaster response and recovery as well as hazard mitigation projects nationwide. As a project manager, Ms. Baumgaertner has been successful at identifying and assembling highly qualified teams to assess and solve complex or unique problems. She is experienced at understanding each client's goals and needs, and providing deliverables that effectively and efficiently support their decision-making processes.

Ms. Baumgaertner has also provided the overall management, direction, and growth of several operations units. She has set goals and led implementation of a strategic vision; identified markets, organized and led the pursuit of new projects, and developed new clients. Using strong leadership and communication skills she developed and shared a clear and consistent sense of purpose and direction to expand and diversify the unit. She strengthened her team through hiring and retaining key management and technical staff, through staff training/mentoring, and by integrating services with other disciplines to promote teaming.

In addition, Ms. Baumgaertner has developed and taught numerous environmental compliance training courses for

Elections, multiple
elections as Computer
Worker, Help Desk,
and/or Judge

Federal agencies. She is a certified instructor as well as a trained facilitator and environmental conflict mediator, and has authored or co-authored more than 20 technical articles and reports related to environmental planning, navigation, coastal zone management, and environmental impact assessment.

Ms. Baumgaertner has an established reputation for being able to "get the job done" in a cost-effective and highly successful way.

Profile

Which Boards would you like to apply for?

Historic Preservation Commission: Submitted

Please select your first Board preference: *

☒ Citizen's Energy Advisory Commission

Please select your second Board preference: *

☒ Historic Preservation Commission

Please select your third Board preference: *

☒ None Selected

Please select your fourth Board preference: *

☒ None Selected

Please select your fifth Board preference: *

☒ None Selected

Please select your sixth Board preference: *

☒ None Selected

Dustin

First Name

Ingalls

Middle Initial

Last Name

711 E 3rd St

Street Address

Suite or Apt

Wendell

City

NC

State

27591

Postal Code

What district do you live in?

☒ District 5

Home: (919) 368-6802

Primary Phone

Home: (919) 368-6802

Alternate Phone

dustin.ingalls@gmail.com

Email Address

Environmental Defense Fund

Employer

Director of Political Programs

Job Title

If you live in an Extraterritorial Jurisdiction Area, select Yes:

☐ Yes ☒ No

In order to assure countywide representation, please indicate your place of residence:

☒ Wendell

Interests & Experiences

Why are you interested in serving on a Board or Commission?

I've been working in the environmental advocacy space for almost 5 years, and want Wake County to be a leader in reducing waste, preserving, reusing, and recycling resources, and boosting clean energy, energy efficiency, and composting. I also live in an 80-year-old home and have an interest in history.

Work Experience

Work and volunteer experience and education can be found at: <https://www.linkedin.com/in/dustin-ingalls>

Volunteer Experience

Education

Comments

I am particularly interested in potential June 2023 vacancies on the Energy Advisory Commission.

Upload a Resume

If you have another document you would like to attach to your application, you may upload it below:

Please upload a file

Demographics


Date of Birth

Gender *

☒ Male

Ethnicity *

☒ Caucasian

Other

How did you become aware of Wake County volunteer opportunities?

☒ Other

If you selected "Other" above, how?

Speaking to Matt Calabria

Please upload a file

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Profile**Which Boards would you like to apply for?**

Historic Preservation Commission: Submitted**Please select your first Board preference: ***

☒ Historic Preservation Commission**Please select your second Board preference: ***

☒ Historic Preservation Commission**Please select your third Board preference: ***

☒ Historic Preservation Commission**Please select your fourth Board preference: ***

☒ Historic Preservation Commission**Please select your fifth Board preference: ***

☒ Historic Preservation Commission**Please select your sixth Board preference: ***

☒ Historic Preservation Commission

Scott

First Name

E

Middle Initial

Carpenter

Last Name

214 E Horton St

Street Address

Suite or Apt

Zebulon

City

NC

State

27597

Postal Code

What district do you live in?

None Selected

Home: (919) 413-5083

Primary Phone

Home: (919) 413-5083

Alternate Phone

scarpenter44@windstream.net

Email Address

Striveworks

Employer

Senior Data Scientist

Job Title

If you live in an Extraterritorial Jurisdiction Area, select Yes:

☐ Yes ☒ No

In order to assure countywide representation, please indicate your place of residence:

☒ Zebulon

Interests & Experiences

Why are you interested in serving on a Board or Commission?

I am interested in volunteering to serve my community as a way to "give back." I have strong interests in NC history, especially Wake County, and have recently helped the citizens of Zebulon to get the Zebulon Historic District listed on the National Register of Historic Places. This process allowed me to interact with the WCHPC, among many others, and sparked an interest in serving on that committee.

Work Experience

I am a data scientist, where I use data to help drive decisions (as opposed to "speculation" and/or emotion). I am a certified Project Management Professional (PMP) that gives me skills to manage teams, to assess their risks, and to help solve their issues. I have taught at the college level.

Volunteer Experience

I am attaching a document (Volunteerism Vignettes.pdf) that describes several of my more recent volunteer experiences. In summary, I have established and led a local group of citizens in Zebulon to celebrate and recognize through numerous preservation activities the wonderful history that defines Zebulon and Eastern Wake County.

Education

PhD, Computer Science, from NCSU (GPA > 4.0)

Comments

Thank you for your time and consideration for this wonderful opportunity. I look forward to working with you and the WCHPC.

[Scott_Carpenter_resume_23.pdf](#)

Upload a Resume

[Volunteerism_Vignettes.pdf](#)

If you have another document you would like to attach to your application, you may upload it below:

Please upload a file

Demographics

Scott E Carpenter



Date of Birth

Gender *

☒ Male

Ethnicity *

☒ Caucasian

Other

How did you become aware of Wake County volunteer opportunities?

☒ Other

If you selected "Other" above, how?

Friends with those who have served

Please upload a file

ETHICS GUIDELINES FOR COUNTY ADVISORY BOARDS AND COMMISSIONS

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Scott Carpenter, PhD

214 E Horton St, Zebulon NC 27597 | (919) 413-5083 | scarpenter44@windstream.net

Qualifications

Artificial Intelligence / Machine Learning / Data Science / Software Engineer / Project Manager

- Highly motivated and meticulous machine learning / data scientist with over 20 years of industry knowledge in software engineering and project management. Well-organized, analytical problem solver with broad technical skills and exceptional communications skills.
- Education: Ph.D. Computer Science, M.S. Computer Engineering, B.S. Computer Engineering
- Applies industry, government, and academia experiences to data analysis by identifying business solutions while simultaneously producing individual “hands-on” technical contributions.
- Consistent track record overseeing complex research projects, machine learning / AI model development, applying data science / statistical analysis techniques to produce results using suitable performance metrics, and communicating recommendations based on findings.
- Passionate about enforcing corporate policies through business strategy planning and tactical execution
- Certifications: Amazon Web Service (AWS) Machine Learning Specialty, AWS Certified Practitioner, Project Management Professional (PMP), Certified Scrum Master (CSM), Certified Ethical Hacker (CEH, in progress).
- Security Clearance: Top Secret / SCI (with ability to poly, through 8/20).

Programming Languages: Python, Java (Spring, REST), C/C++, C#/.NET, XML, JavaScript/TypeScript, HTML5/CSS, MATLAB, R, PHP, FORTRAN, Prolog, LISP, VBA, assembly.

Databases: SQL (PostgreSQL, MSSQL, Oracle), NoSQL Spark/Hadoop, XQuery.

Professional Experience

10/21 – present

Senior Data Scientist, Striveworks

NC

- Design, implement and deploy data-centric solutions for DOD-based clients, with heavy emphasis on various machine learning models for to enable frictionless decision making.
 - H2F data collection – developed for 82nd ABC, rolled out Army-wide
 - Leader Engagement Tool (LET) – ATO Army-wide
 - Historian / Archives Management System
 - Talent Management System
 - Auto-labeling of ISR imagery
- Team Lead.

08/20 – 10/21

Senior Data Architect, Growers, Inc / ICL

RTP, NC

- Designed, implemented, and deployed relational schema for agronomy CRM for a new application, delivered in < 4 months, using AWS RDS (PostgreSQL), Sequelize ORM (TypeScript), and DynamoDB (data audit trail).
- Managed AWS RDS data lifecycle deployments using unique data migration strategy, to QA, automation, staging, and production environments.
- Provided technical mentoring for GIS-data collection team (Python, GeoPandas, PostGIS).
- Technical oversight of AWS data pipeline teams.
- Assisting in data roadmap planning for AI/ML efforts, including data sourcing, data cleaning, and model development.

04/19 – 08/20

Principal Data Scientist I, Applied Research Associates (ARA)

NC / DC

- AI / machine learning SME and research scientist for DoD agency. Evaluate and guide the artificial intelligence model development aspects for a portfolio of projects and make appropriate technical recommendations.
- Conduct data analysis and supervised/unsupervised model development for large collections of disparate data sources.
- Oversee systems analysis and deconstruction (reverse engineering), data analysis and machine learning model development, and the technical evaluations of automation solutions.

Lead the design, implementation, and maintenance of on-prem and cloud-based data collection infrastructure system.

09/17 – 04/19 Data Scientist / Developer Analytics, Cisco Systems (via Robert Half) RTP, NC

- Designed ETL big data consolidation SaaS for CI/CD (Git, Rally, JIRA), with fullstack implementation in Python (Flask, SQL-Alchemy, AngularJS) using PostgreSQL relational database and delivered into Linux production environment, that consolidates software development activities and quality metrics into a time-series-based system of Apache web services and web applications that assists with data visualization of engineering process management.
- Evaluated and performance-scored several SQL and NoSQL technologies, before settling on Timescale-DB (columnar database plug-in for PostgreSQL suitable for high-performance time-series data ingestion and extraction algorithms).
- Achieved high product quality using automated testing (pytest, Jenkins).
- Business intelligence and decision analysis using Jupyter Notebooks (Apache Spark, pandas, NumPy, SciPy, matplotlib), and evaluated Tableau and Power BI systems.

08/16 – 08/17 Instructor / Assistant Professor, Meredith College Raleigh, NC

- Prepared instructional materials for six undergraduate courses (3 full preps per semester), including Software Engineering (Java, C++) and Web Development with Databases (HTML5, PHP, SQL).
- Incorporated real-world problems and experiences and focused students on the thoughtful applications of the full product life cycle, including: requirements gathering, design, implementation, testing and validation, and documentation.
- Proactively motivated undergraduate software engineering students by incorporating Agile / Scrum concepts and coaching them to follow best practices as each became Scrum Master.
- Mentored students' collaborative work in the project-centered creation of systems that have high impact on campus by balancing instruction in many software development techniques.

08/15 – 08/16 Developer / Architect, North Carolina State Univ. Raleigh, NC

- Harmonized unique mixture of 10 professionals and graduate students to integrate a set of seven heterogeneous modules into a unified architecture.
- Enacted Agile / Scrum and mentored team development activities, resulting in on-time milestone delivery of a novel, highly complex research-based system for Artificial Intelligence (AI) / machine learning-based narrative processing.
- Briskly learned Unity 3D gaming platform and then streamlined process workflow by re-designing user interface, to the acclaim of user focus group reviews.
- Instituted continuous operations systems integration framework, identified new use cases, implemented test cases, and cross-trained staff, increasing reliability and reducing regression failures by 60%.

10/09 – 07/15 Senior Data Scientist / Analyst, Houghton Associates Raleigh, NC

- Increased productivity of small, consultant-based teams by introducing Agile / Scrum techniques, leading to sustained 40% improvement in team output after 6 iterations.
- Completed information engineering feasibility study, data analysis, architecture, implementation, and optimization of cloud-based solution using Postgres/SQL RDBMS, Hadoop, and Java/Spring/REST
- , supporting the weather, flight, and cost-accounting modeling needs of 6 systems analysts.
- Developed technical models for discrete event simulations and applied statistical analysis to generate metrics-driven cost benefits that were used to brief executive teams, quarterly.
- Redirected team efforts mid-sprint to acquire missing data and produce high-profile, 50-page aviation benefits analysis report in 3 days.

02/09 – 10/09 Technical Project Manager, Railinc Raleigh, NC

- Managed systems analysis for corporate-wide project initiatives across departmental teams in the railroad transportation industry, involving process development, vendor product selection, contract negotiations, implementation, training, and solution delivery. Define departments' OLAs / SLAs. Presentations to senior management. Initiated project for billing system replacement, including data analysis, design, transformations, and verification.

06/07 – 01/09 Senior Development Manager, Fidelity Investments Durham, NC

- Directed staff to maintain 24/7 operations of a suite of regulation and compliance-based financial services systems while balancing 3-5 simultaneously active projects for new features development.
- Halved the “Priority 1” operational delivery delays and boosted teamwork between onshore / offshore teams by switching to Agile / Scrum to improve communications.
- Successfully delivered on-time the company’s first “Java on the mainframe” system.

01/06 – 06/07 Vice-President of Information Tech., Smith Breeden & Assoc. Chapel Hill, NC

- Unified financial business requirements of 3 divergent business units into a consolidated SQL-based data warehouse that realized a first-time consistency of reporting within the entire organization. Conducted data analysis, modeling, transformations mappings, and data verification on several large data sources.
- Concurrently spearheaded 4 infrastructure projects over 9 months, managing third-party vendor relationships and integrating their products to overhaul and streamline entire corporate business workflow for trading, pricing services, financial data management, and customer relationship management systems.
- Established IT department’s change management methodology and governed demands using metric-based data to drive down turn-around time by 70% within 6 months.
- Originated use of Agile/Scrum within the organization and trained five departments.

12/96 – 01/06 Senior Development Manager, Schwab Performance Technologies Raleigh, NC

- After troubleshooting and then consolidating 4 simultaneously failing projects, successfully executed project plan of over 7,000 individual tasks to produce 3 consecutive on-time releases over 18 months.
- Engaged onshore / offshore teams of 20-40 developer and quality control personnel to continually enhance financial services industry applications, including portfolio management and trading systems.
- Established consistently on-time and on-budget quarterly product release cycles, resulting in Top 15% annual reviews and multiple corporate *Excellence in Service* awards.
- Strategically drove software engineering department by developing roadmaps, coordinating budgets, educating team, and enacting continuous process improvements resulting in a focused and satisfied team.
- Introduced earned-value management (EVM) practices that identified budget management and staffing risks, reducing change management costs by 30% when applied within the first 2 projects.
- Transitioned teams to Agile/Scrum, cutting in half the management of project documentation.

**Education
and
Training**

Ph.D., Computer Science, (May, 2018)

GPA: 4.0

North Carolina State University, Raleigh, NC

- Thesis: Improving safety in vehicular networks using Wi-Fi technologies.
 - Conducted extensive data analysis of a large dataset of IoT / vehicular movement and communications data, requiring statistical analysis of temporal and spatial correlations, using Java, SQL, Matlab, and R to identify and develop new models and algorithms that were validated through simulations, resulting in conference publications.
 - Designed, implemented, and tested radio-wave propagation loss models based on 802.11 standards and other networking simulation models that were contributed to the open source *ns-3* simulator, leading to several refereed conference publications.
 - Proposed and completed 5 research projects in 3 years (while simultaneously working full-time) in software engineering and computer networking topics, resulting in conference publications and presentations.

M.S., Computer Engineering

GPA: 3.6

Case Western Reserve University, Cleveland, OH

B.S., Computer Engineering

GPA: 3.2 (with honors)

Case Western Reserve University, Cleveland, OH

Amazon Web Services (AWS) Certified Practitioner

AWS Machine Learning Specialty

Project Management Professional (PMP)

Agile / Certified ScrumMaster

**Organizations
and
Activities**

ns-3 open-source discrete event network simulator

code contributor

Institute for Electrical and Electronic Engineers (IEEE)

member

SAE (formerly, Society for Automotive Engineers)

member DSRC standards Tech. Cmte.

Preservation Zebulon, Inc.,

Co-founder and Chairman of the Board

- Preservation Zebulon, Inc. is a NC 501 (c) (3) non-profit, founded in 2016, that is dedicated to the preservation of historic buildings, structures, landmarks, and districts near Zebulon, NC.

Leadmine Lakes Homeowners Association

President

Volunteerism Vignettes:

- Co-founder of Preservation Zebulon, Inc., an NC 501(c)(3) dedicated to the preservation of architectural elements of the Zebulon, NC area.
- Preservation Zebulon Board Chair, 2016-present.
- Guided local citizens through the successful listing of the Zebulon Historic District (316 contributing structures) on the National Register of Historic Places (NRHP)
 - Established successful relationships with the NC State Historic Preservation Office (SHPO) (e.g., Ramona Bartos, Dr. Darin Waters)
 - Worked closely with our local Zebulon CLG officials and staff
 - Interacted with the Wake County Historic Preservation Commission and staff, including attending meetings and numerous communications.
 - Presented materials on the district nomination at public hearings, to Zebulon Town Commissioners, Zebulon Planning Board, and the Wake County Historic Preservation Commission
- Co-owner of the John and Nellie Finch House, a contributing structure within the Zebulon Historic District which we have been lovingly restoring.
- Established the Zebulon Memory Project, which captures on video pre-1970s memories of life in Zebulon.
 - Captured dozens of hours of interviews on video of 12 citizens.
 - Created and presented one summary video each year for PZ Annual Meeting
- Organized and led Zebulon's first Historic Homes Tour
 - Coordinated 50 volunteers
 - 200 guests
- Established Zebulon Historic Preservation Awards, given annually.
- Leadmine Lake Homeowners Association
 - Secretary
 - Chairman of the Architectural Protective Covenants Committee
 - President, 4 years.