

# Kathleen C. Fort

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## Education

University of North Carolina at Chapel Hill  
B.S. Computer Science | Minor: Data Science, Art Studio  
GPA: 3.85 | Dean's List (6 semesters)  
American Association of University Women STEM Scholar Award

## Publications & Certifications

- *Augmenting SOFA Scores for Sepsis Prediction with Machine Learning* (in press)
- FAA Private Pilot Certification

## Technical Skills

Java, Python, C, JavaScript, HTML, CSS, SQL, MongoDB, Bootstrap, Angular, Django, Flask, R, Git, Docker, Kubernetes, Data Structures, Data Analytics, Algorithms, Object-Oriented Programming, Infrastructure, Project Management, Full-Stack Development, Machine Learning, XAI, Neural Networks, Mathematics, Statistics, mkdocs, Jira, Bitbucket, Slack, Microsoft Teams, GitHub

## Professional Experience

### **Bank of America**

*Global Technology Software Engineering Summer Analyst | New York Metropolitan | Jun – Aug 2025*

- Developed scalable APIs, dynamic queries, and hierarchical clustering algorithms for the FlexService platform, supporting 25K monthly orders by accelerating root cause analysis and enhancing system reliability for distributed storage infrastructure.
- Utilized Jira and Bitbucket for agile project management; conducted testing across UAT/SIT environments with production data to identify and resolve software defects. Authored technical documentation to support project transfer and maintenance.
- Led a five-intern team to deliver an internal data visualization platform using Python, implementing graphics production and ensuring on-time project delivery through effective task delegation and cross-team collaboration. Presented to 150+ employees.

### **Life Science Data Analytics Research Group**

*Undergraduate Researcher | University College Dublin, Ireland | May 2024 – Present*

- Designed and implemented machine learning algorithms (XG-Boost, Decision Trees, KNN imputation) to augment Sequential Organ Failure Assessment scores for early sepsis detection, improving patient survival rates by up to 37%.
- Developed a user interface for clinical applications, leveraging explainable AI to interpret patient vitals and support tailored care.
- Presented research poster and software deliverables to academic leadership and stakeholders.

### **Mesur.IO**

*Data Analyst | Raleigh, NC | Jan – May 2024*

- Enhanced data accuracy and integrity by analyzing global supply chains using Python, improving source-to-customer intelligence and supporting data-driven decision-making.
- Queried MongoDB datasets to uncover multi-tier connections and provide actionable insights for risk assessment and strategy.

## Leadership & Community Involvement

### **UNC Department of Computer Science**

*Career Assistant | Aug 2025 – Present*

- Advise and mentor 900+ undergraduates on professional development, including resume reviews and mock interviews.
- Coordinate large-scale career events and spearhead an initiative to collect increase student engagement and feedback.
- Design and update digital content for departmental outreach, including the weekly departmental newsletter and webpage.

*Head of Community Teaching Assistant (TA), Comp 523: Foundations of Software Engineering | Jan – May 2026*

- Served as the primary point of contact for TAs, gathering feedback to improve team dynamics and effectiveness
- Supported 200+ students by providing lecture assistance and office hours, assisting with full-stack web development, frontend/backend services, unit testing, and bug identification content and assignment comprehension.
- Participated in collaborative software development using GitHub, including ticket boards, code reviews, and documentation.

*Computer Science Experience Labs (CSXL) Ambassador | Aug 2025 – Present*

- Support the UNC Computer Science community by facilitating experience labs and assisting students and faculty.

### **Girls Who Code**

*Teaching Assistant | UNC-Chapel Hill, NC | Aug – Dec 2024*

- Delivered in-person coding instruction to 20+ middle and high school students, focusing on foundational coding concepts.
- Mentored two students one-on-one, reinforcing problem-solving skills and building confidence in programming.

### **PearlHacks Major League Hacking 24 Hour Hackathon**

*Team Leader & Volunteer | UNC-Chapel Hill, NC | Apr 2023, 2025*

- Team Leader: led a team of four to design the 'SipSavers' app, receiving feedback from industry professionals.
- Volunteer: facilitated collaboration between participants and judges, ensuring access to resources and supporting innovation.

### **Alpha Delta Pi Sorority**

*Vice President of Finance | UNC-Chapel Hill, NC | Nov 2023 – Nov 2024*

- Managed chapter finances and annual budget, presenting financial reports to executive leadership.
- Implemented an e-check payment initiative, reducing merchant fees and improving payment efficiency.