Mika Collins

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Education

University of North Carolina Wilmington — May 2026
B.S. Software Engineering — GPA: 3.6
Minors: Computer Science & Spanish

Skills

- **Programming Languages:** Python, Java, JavaScript, TypeScript, HTML, CSS, PHP
- **Frameworks/ Tools:** Git, Github, Vue.js, React, Node.js, Figma, VSCode, IntelliJ IDEA, SceneBuilder, Ubuntu
- **Concepts:** OOP, Data Structures & Algorithms, Software Development Life Cycle, Agile/Scrum

Relevant Experience

Research Assistant, UNCW CSC Department | Wilmington, NC — January 2026 – Present

- Conducting vision driven research on agentic software engineering by analyzing agent robustness, including the effects of issue language, prompt injection, integrity violating actions, and behavioral differences of public agents.
- Implementing a Docker-based automation pipeline using SWE-bench to evaluate AI agents on solving real Github issues, capturing execution traces, code changes, and test outcomes for analyzing agent performance.

Undergraduate Teaching Assistant, UNCW CSC Department | Wilmington, NC — January 2025 – Present

- Reviewed and debugged Python code for roughly 200 students across Intro to Computer Science and Data Structures courses, providing constructive feedback, code suggestions, and guidance to improve coding skills.
- Collaborated with the professor to design test files and deliver evaluations, contributing to effective communication, prompt feedback, and delivery of a high-quality course for students.

Research Assistant, UNCW CSC Department | Wilmington, NC — June – August 2025

- Conducted applied research on LLMs (ChatGPT-4o, ChatGPT-5, Mistral) to evaluate their ability to generate secure code, identifying vulnerabilities such as SQL injection, XSS, and data exposure.
- Developed and iterated backend services in Node.js (TypeScript), Python (Flask), and Java (Java Spring Boot); produced architecture diagrams, database schemas, and test cases.

Projects

Room Occupancy Visualization System — *August – December 2025*

- Collaborated in a 4-member team to develop a room occupancy system integrating Raspberry Pi endpoints, a Flask backend, and a Vue.js client to process and display real-time Wi-Fi scan data as a dynamic heatmap.
- Led front-end development using HTML, CSS, Javascript, and Vue.js, implementing modular components and API integration, while leveraging Github for CI/CD workflows and following Agile sprints with regular scrums.

Internship Application Tracker — *May 2025*

- Developed an internship tracker for students in Java using JavaFX, SceneBuilder, and CSS with an OOP design emphasizing modularity, maintainable code, and CSV file integration for local data storage.
- Implemented features including a real-time pie chart, search functionality, editable entries, error handling, and color-coded table columns, improving usability, visual clarity, and overall user experience.

Campus Involvement

Sigma Delta Pi (National Collegiate Hispanic Honor Society) | *Member* — April 2025 – Present
Software Engineering Advisory Board | *Student Representative* — January 2025 – Present
Society of Women Engineers (SWE) | Member — September 2024 – Present
Association for Computing Machinery (ACM), Wilmington Chapter | *Member* — February 2024 – Present