

# Caroline Varner

carolinevarner04@gmail.com | (912)-677-2336 | LinkedIn: Caroline Varner | <https://github.com/carolinevarner>

## EDUCATION

### Kennesaw State University

Marietta, Georgia

Bachelor of Science in Software Engineering, Minor in Interactive Design

Graduation, December 2025

- **GPA:** 3.50
- **Related Coursework:** Object-Oriented Programming, Introduction to Software Engineering, Data Structures, Computer Organization and Architecture, Software Testing QA, Operating Systems, User Centered Design, Software Project Management and Architecture, Internet Programming, Parallel & Distributed Computing, Cloud Software Development

## SKILLS

**Languages/Frameworks:** Java, C#, C++, Python, React/Next.js, Typescript, HTML/CSS, SQL, ASP.NET Core

**Developer Tools:** Visual Studio Code, IntelliJ, PyCharm, MS Office Suite, Adobe Creative Cloud, AWS, GitHub, Figma

## EXPERIENCE

### Kennesaw State University College of Computing and Software Engineering

Marietta, Georgia

Team Lead - Lab Assistant/Tutor

Aug 2023 – Present

- Collaborated with faculty and graduate teaching assistants to support instruction in programming labs for courses using **Java**, **Python**, and **C#**. Topics covered include **parallel processing**, **file I/O**, **data structures**, **ArrayLists**, **stacks**, **queues**, and algorithmic problem-solving
- Provided academic support to over **300** students across multiple concurrent courses by assisting with in-lab assignments, core programming concepts, and debugging strategies
- Assisted with new hire onboarding by conducting technical interviews with management and generating new hire procedure documents/work methods
- Mentored new hires by developing a collaborative **GitHub** repository with curated assignment and lab examples for hands-on practice

## PROJECTS

### ManageMe.io | ASP.NET Core, C#, HTML/CSS, JavaScript, MongoDB, AWS Elastic Beanstalk

Atlanta, Georgia

Backend Lead

Jan 2025 – May 2025

- Developed and deployed a full-stack web application using **ASP.NET Core MVC** and **MongoDB**, hosted on **AWS Elastic Beanstalk** for automatic deployment and scaling
- Implemented a scalable microservices architecture with repository pattern
  - Achieved **99.9%** uptime and handled over **1000** concurrent users
- Created a dynamic task management system with real-time updates and status tracking
- Integrated **MongoDB** for efficient data storage and retrieval
  - Optimized query performance by **35%**

### Fusion Restaurant Simulator | Multi-Threading & IPC

Atlanta, Georgia

Developer

Jan 2025 – May 2025

- Multi-Threading Implementation (LotusFusionRestaurant) Project
  - Developed using **C#** and utilized mutex locks and semaphores for synchronization, introduced and resolved deadlocks, and managed concurrent chef threads processing customer orders
- Inter-Process Communication (IPC) Project
  - Created a **C#** program using **named pipes** to enable real-time data exchange and communication between independent processes (ChefLogger and LogReader)
- Utilized thread management, resource protection, and process communication to enhance performance and reliability

## LEADERSHIP/ACTIVITIES

### Kennesaw State University College of Computing and Software Engineering

Marietta, Georgia

Senator

Aug 2023 – July 2024

- Attended weekly council meetings to address student concerns and served as a liaison between students and the university
- Worked with university management to discuss budgeting, student welfare deficiencies, and campus engagement events for under-represented communities