

Merritt Mason

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PROFILE

Driven Computer Science student with hands-on experience in full-stack development, AI integration, and systems programming. Proficient in Python, Java, JavaScript, TypeScript, C/C++, SQL, and React. Built AI-driven tools using LLMs, real-time transcription systems, and scalable web applications. Successfully balanced full-time CS coursework with technical leadership roles and independent projects. Focused on building efficient, production-ready software and continually growing in backend development, AI systems, and application architecture.

EDUCATION

Computer Science <i>The University of Alabama</i>	08/2022 – present Tuscaloosa, AL
IT Computer Programming and Development AAS <i>Rowan Cabarrus Community College</i>	01/2024 – present Salisbury, NC
IT Database Administrator <i>Rowan Cabarrus Community College</i>	01/2024 – 05/2025 Salisbury, NC

PROFESSIONAL EXPERIENCE

J.F. Hurley YMCA <i>Lifeguard Instructor/Lifeguard</i>	11/2023 – present Salisbury, NC
Swim Club Management Group <i>Aquatic Facility Director</i>	05/2021 – 09/2023 Charlotte, NC
The University of Alabama <i>Lifeguard</i>	11/2022 – 05/2023 Tuscaloosa, AL

- Train and certify new lifeguards in CPR, first aid, water rescues, emergency response, and emergency oxygen usage.
- Conduct lifeguard recertification and in-service training to ensure continued compliance with safety standards.

- Managed Aquatics/lifeguard operations, with a large team, at several prestigious country clubs near the Charlotte/Lake Norman Area.

- Worked at the university's aquatic center with a team of 30 lifeguards.
- Maintained safety at a facility featuring an Olympic-sized pool, high-dive platforms, and diving boards.

PROJECTS

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<i>Full-stack developer</i>	
• Built and deployed a professional resume site using TypeScript , React , and Tailwind CSS with Vite as the build tool for fast, optimized performance.	
• Structured responsive layouts with reusable components, optimized for mobile and desktop.	
• Employed Git for version control and Vercel for continuous deployment.	
• Technologies used: TypeScript , JavaScript , React , Tailwind CSS , HTML5 , Vite , PostCSS , ESLint .	
Shadow AI — Intelligent Meeting Assistant	
<i>Backend developer</i>	
• Developed the audio transcription backend with Whisper.cpp , coded in C , and focusing on real-time processing for meetings and interviews.	
• Implemented screenshot-to-text capabilities using LLaVA , enhancing the system's ability to process visual context and offer real-time, professional-level outputs.	
• Integrated the transcription system with AI-powered response and note-taking functionalities , enhancing user experience by providing seamless, real-time notes and actions.	