

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 Dev</i>	
<ul style="list-style-type: none">• 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>	
<ul style="list-style-type: none">• 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.	