




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> <ul style="list-style-type: none">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.	11/2023 – present Salisbury, NC
Swim Club Management Group <i>Aquatic Facility Director</i> <ul style="list-style-type: none">Managed Aquatics/lifeguard operations, with a large team, at several prestigious country clubs near the Charlotte/Lake Norman Area.	05/2021 – 09/2023 Charlotte, NC
The University of Alabama <i>Lifeguard</i> <ul style="list-style-type: none">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.	11/2022 – 05/2023 Tuscaloosa, AL

PROJECTS

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Full-stack developer

- 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

Backend developer

- 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.