

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

IT Computer Programming and Development AAS

Rowan Cabarrus Community College

Dean's List

Expected Fall 2025
Salisbury, NC

Computer Science

The University of Alabama

Expected Spring 2026
Tuscaloosa, AL

Information Technology, Essentials Certificate

Rowan Cabarrus Community College

Received Spring, 2025,
Salisbury, NC

PROFESSIONAL EXPERIENCE

American Red Cross Lifeguard Instructor/Lifeguard *J.F. Hurley YMCA, Salisbury, NC November 2023 - Present*

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

Aquatic Facility Director *Trump National Golf Club Charlotte, Mooresville, NC May 2023 - August 2023*

- Managed lifeguard operations at Trump National Golf Club Charlotte, overseeing a team of 15.
- Operated a three-pool facility featuring a large water slide.
- Maintained a safe environment for patrons and ensured proper pump room procedures.

Lifeguard/Shift Leader *The University of Alabama, Tuscaloosa, AL November 2022 - May 2023*

- 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.
- Familiarized with pump room operations, including chemical handling, water levels, and drain maintenance.

PROJECTS

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Full Stack Dev

- 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 Interview & Meeting Assistant

Audio Transcription Back-end Dev

- Developed the audio transcription backend with **Whisper.cpp**, coded in **C**, and focusing on real-time processing for meetings and interviews. This technology converts speech into structured data, optimizing **LLaMA models** for technical fields such as engineering and programming.
- 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.