

William "Merritt" Mason

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PROFILE

Driven and adaptable programmer with a strong foundation in software development, AI, and systems design. Proficient in Python, Java, JavaScript, TypeScript, C, C++, SQL, HTML/CSS, and React, with hands-on experience building full-stack web applications, creating facial recognition software, and working with large language models. While managing full-time college coursework, I've also held part-time leadership roles, balancing academics with practical experience—from building custom PCs and configuring servers to developing tools in cybersecurity and machine learning. I bring a proactive mindset, a hunger to learn, and a focus on building real, useful software. Currently expanding skills in full-stack development, AI systems, and cybersecurity, and always looking for challenges that push my growth as a developer.

EDUCATION

IT Computer Programming and Development

Rowan Cabarrus Community College

Expected Fall 2025 | Salisbury, NC

Dean's List

Computer Science

The University of Alabama

Expected Spring 2026 | Tuscaloosa, AL

PROJECTS

Personal Website



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.

PROFESSIONAL EXPERIENCE

American Red Cross Lifeguard Instructor

J.F. Hurley YMCA, Salisbury, NC March 2024 - 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.

Lifeguard

J.F. Hurley YMCA, Salisbury, NC December 2023 - May 2025

- Ensured pool safety as part of a team of 20 lifeguards.
- Managed operations at a facility with a two-pool configuration and a medium-sized water slide.
- Developed expertise in pump room procedures and emergency protocols.

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

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.

More Experience Available Upon Request