Samuel Sarzaba

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EDUCATION

Virginia Commonwealth University, College of Engineering *Richmond, VA*
B.S. in Computer Science, GPA: 4.00 *Expected May 2025*

Relevant Coursework: Data Structures & Object Oriented Programming | Algorithm Analysis with Advanced Data Structures | Computer Organization | Operating Systems | Data Communication & Networking | Software as a Service

PROFESSIONAL EXPERIENCE

Extended Reality Research Intern *August 2024 – Present*
VCU College of Engineering *Richmond, VA*
- Develop multi-platform telemedicine solution in Swift, integrating web, iOS, and AR HoloLens and Vision Pro interfaces for real-time video consultations through PeerJS, enhancing remote diagnostic capabilities.
- Designed an advanced availability management system with NextJS and PostgreSQL to streamline connections between doctors and on-call specialists, resulting in enhanced patient care coordination.
- Addressed complex technical challenges in developing a telehealth platform for sensitive medical communications by utilizing column masking.

Software Engineering Intern *June 2024 – Present*
Estes Express Lines *Richmond, VA*
- Collaborated on the development of an SMS appointment scheduling app utilizing Twilio for trucking terminal clerks, reduced scheduling time by 50% and decreased no-show rates by 25%.
- Developed user-centric full-stack web applications using Angular and Spring Boot, designing intuitive interfaces and reducing data retrieval time by 30% through efficient data integration based on user requirements.
- Partnered with a Scrum team to implement Meta Pixel analytics on the company's career site, improving tracking capabilities and boosting conversion rates.
- Worked on modernization of legacy Angular application, resolving 80% of critical security vulnerabilities and increased user satisfaction rating by 30%.

Computer Science Teaching Assistant *January 2024 – May 2024*
VCU College of Engineering *Richmond, VA*
- Mentored over 100 students, boosting engagement and significantly improving lab and project outcomes.
- Streamlined task delegation and communication by leading the migration from an outdated platform to Asana, accelerating task completion rates across the team.
- Collaborated with the professor and team of teacher assistants to efficiently organize work distribution, ensuring timely task completion.

PERSONAL PROJECTS

GitHub Repository Searcher *July 2024*
- Developed a code search tool leveraging GitLab APIs and AI technologies to enhance code retrieval across any given GitHub group or repository.
- Engineered AI solutions utilizing OpenAI's GPT-4 and local models to process code repositories, attaining 80% accuracy in retrieving relevant code snippets, confirmed through systematic testing and performance monitoring.

EXTRACURRICULAR ACTIVITIES

Computer Science Student Advisory Board, *VCU* *April 2024 - Present*
- Collaborate with board members to develop and implement strategies for enhancing student involvement in CS programs, creating an alumni mentorship initiative linking 20 industry professionals with students.
- Built and distributed a biweekly newsletter for over 500 CS students, compiled from meeting notes and enhanced with AI-generated insights to ensure accuracy and relevance in departmental updates and job opportunities.

SKILLS

Programming Languages: Java | Python | TypeScript | JavaScript | C/C++ | Rust
Web Development: Angular | NextJS | HTML | CSS | Spring Boot
Mobile & Extended Reality Development: HoloLens, Vision Pro, iOS Development
Software Engineering Tools: Git | Trello | Asana | Twilio | PlantUML | Selenium | Figma