

Xuzhong Wang

Williamsburg, VA | (804)791-8290
xwang58@wm.edu

Education

William & Mary | Williamsburg, VA
Bachelor of Science in Computer Science | 05/2026
GPA: 3.98/4.0

Skills

Programming Language: C/C++, Python, Java, JavaScript, Go, MATLAB, SQL, HTML/CSS

Frameworks: Git, AMD ROCm, PyTorch, LangChain, OpenCV, React, Firebase, SQLite, Docker, AWS

Relevant Experiences

William & Mary Scalable Architecture Lab | Williamsburg, VA
Undergraduate Researcher | 05/2024 - Present

- Implemented data logger feature in Akita GPU simulation engine with **SQLite** library in **Go** language, storing experimental data into **CSV** files.
- Developed software through **HIP** interface in **C++** programming language to support simulations for updated AMD GPU instructions, scraping binaries from GPU based on **AMD ROCm** software.
- Created and maintained streaming data mover to enable communications between distinctive components in the simulated GPU utilizing **GoMock** and **Ginkgo** testing framework.

Bestlink Technologies Co.,Ltd | Nanjing, China
Software Engineer Intern | 05/2024 - 07/2024

- Developed text extraction tool in **Python** with **OpenCV** library from images, contributing to information filtering and data compression.
- Collaborated with senior engineers in software design for an AI financial consultant in **DevOps** principles, analyze, design, and implement software in **Scrum** management framework.
- Integrated **LLM** into AI consultant with **LangChain** in the development, improving AI consultant's response generation in accordance with previous user input.
- Established and trained AI consultant's deep learning model in financial knowledge with **PyTorch**, realizing its ability to credit scoring and fraud detection.

Projects

Akita GPU Simulation Engine

- Contributed to the development of Akita, a modular and extensible computer architecture simulation framework enabling efficient design and experimentation with new architectural concepts.
- Developed and optimized **AkitaRTM**, a real-time monitoring tool for observing simulator execution, utilizing web technologies to deliver an intuitive user interface under the monitoring package
- Integrated advanced visualization features in **Daisen**, improving graphical representation of simulation workflows and results in the daisen package, facilitating user insights.

Personal Portfolio

- Designed and developed a dynamic personal portfolio website to showcase projects, skills, and experiences, with responsive design and seamless user interactions.
- Built a fully responsive front-end using **HTML**, **CSS**, and **JavaScript**, ensuring compatibility across devices and browsers.
- Implemented interactive components and efficient state management with **React**, enhancing user experience.
- Developed a secure backend with **Node.js** and integrated real-time data storage and authentication using **Firebase**.