RACHEL LI

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EDUCATION

Bachelor of Science in Computer Engineering, University at Buffalo — May 2024

GPA: 3.9/4.0
Minor: Mathematics
Member: Tau Beta Pi
Relevant Coursework: Real-Time and Embedded Operating Systems, Microprocessors, VLSI Electronics, Hardware/Software Integrated Systems Design, Web Applications, and 3D Game Development in Unreal.

SKILLS

Programming Languages	Python, JavaScript, C, C++, Scala, ARM, Verilog, MIPS, Swift.
Tools	VS Code, MS Office, Docker, STM32 Nucleo-144, Tiva C Series, ServiceNow.
Certifications	ServiceNow Certified System Administrator

EXPERIENCE

Undergraduate Teaching Assistant — Aug 2023 - Current
UB School of Engineering and Applied Sciences — *Buffalo, NY*

- Assisting with teaching additional material on Computer Organization and Intro to Microprocessors to around 20 students through recitations.
- Providing dedicated and accessible office hours for the students.
- Collaborating with other teaching assistants to develop class material for projects and recitations.
- Regularly meeting with professor and teaching assistants to discuss progress of the course.

Software Engineering Intern — May 2023 - Aug 2023
KeyBank — *Buffalo, NY*

- Implemented solution design including new feature adds, enhancements, and the cleanup of tech debt for the ServiceNow ITSM platform.
- Developed 10+ user stories organized into 2-week sprints for ServiceNow releases.
- Communicated with clients from various departments such as the Service Catalog and Asset Management to advise and assist in their desired project implementations.
- Presented final products to both developers and clients at the end of each sprint.
- Worked on the Continuous Improvement team within an Agile Scrum environment.

PROJECTS

Remote Stethoscope. Designing and manufacturing a digital stethoscope within cost constraints for doctors providing telemedicine. Building a device that converts, filters, and analyzes signals using AI and microcontrollers. Communicating with a cardiologist to aid in development while providing regular updates.

Safety Alarm. Designed and built an embedded system that warns users of potential danger approaching from a vulnerable angle by measuring the distance of the subject and sending vibrations to the user, as well as displaying the warnings as a visual support. Programmed a FPGA with peripherals such as ultrasonic and vibration motors.

LEADERSHIP

- Sponsorship Lead for UB Hacking, the University at Buffalo's official student-run hackathon that brings in over 500 participants each event. Actively involved in facilitating conversations with sponsors and securing key partnerships from industry leaders.