Riley Kirkwood

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Summary

Computer Engineering graduate with software engineering experience and strong problem-solving skills. Skilled in Python, C/C++, and Linux, with hands-on experience developing, testing, and maintaining software tools. Collaborative and quick learner ready to contribute to dynamic teams.

Technical Skills

Languages: Python, C/C++, Java, MATLAB
Tools & Frameworks: Git, Pytest, Linux, Windows
Concepts: Embedded Systems, Software Testing, Signal Processing, Teamwork, Adaptability

Experience

Brigham Young University, Provo   May 2022 - Apr 2025
Research Assistant
- Developed and maintained software tools supporting data acquisition, processing, and visualization, improving system reliability and performance.
- Automated testing and debugging processes in Python and C to accelerate development cycles and increase software quality.
- Collaborated with cross-functional teams to troubleshoot and resolve technical issues in embedded Linux and SDR environments.
- Contributed to documentation and presentations conveying technical results to diverse audiences.

The Church of Jesus Christ of Latter-day Saints   Jul 2019 - Jul 2021
Volunteer Representative
- Trained and led up to 70 missionaries at a time, providing instruction and leading by example.
- Gave leadership training presentations for over 100 missionaries to improve teaching skills.

Education

Brigham Young University   Graduated June 2025
Bachelor of Science in Computer Engineering
- Relevant coursework: Embedded Systems, Circuit Design, Computer Networks, Machine Learning
- Relevant Projects: Peer-to-Peer File Sharing System, RISC-V Processor on FPGA, Drone Orientation Estimation, Android Mapping Application

Publications

- "Exploring Maximum Bit Rates for Software Defined Radios in Aeronautical Telemetry," International Telemetering Conference Proceedings, 2024. http://hdl.handle.net/10150/675413
- "On Polarization Diversity in 5G and Beyond Internet of-Things Networks," 2023 Intermountain Engineering, Technology and Computing (IETC), 2023. doi: 10.1109/IETC57902.2023.10152026