Riley Kirkwood

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Summary

Recent computer engineering graduate who enjoys solving real-world technical and system challenges. Known for adaptability, teamwork, and a hands-on approach to learning. Experienced in supporting and troubleshooting software and hardware in collaborative environments.

Education

Brigham Young University   Graduated June 2025

Bachelor of Science in Computer Engineering

- Relevant Projects:
  - **Space Invaders on PYNQ:** Developed a playable game with custom drivers, showcasing low-level troubleshooting and cross-platform support.
  - **Peer-to-Peer File Sharing System:** Designed and deployed a BitTorrent-style file transfer system using socket-based networking, enabling secure and efficient data exchanges.
  - **Android Mapping App:** Built a mobile app integrating Google Maps API and SQL database for location data storage and retrieval.

Experience

Brigham Young University, Provo   May 2022 - Apr 2025

Research Assistant

- Developed, tested, and optimized detection software for SDR systems in Linux, improving system throughput and performance.
- Built and validated data pipelines for monitoring and visualizing network system health.
- Implemented automated system troubleshooting and diagnostics using Python and C.
- Coordinated technical findings and wrote documentation/publications for system improvements.

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.

Technical Skills

Languages: Python, C/C++, Java

Tools & Frameworks: Git, Pytest, Android Studio, tkinter

Operating Systems: Linux, Windows

Other: Socket programming, data visualization, software testing, troubleshooting, organization