Sialas Tripp

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Summary

Seeking Bachelor's Degree in Computer Science at the University of Idaho.

Skills

- Attentive to detail
- Time Management
- Articulate
- C Programming
- C++ Programming
- Python Programming
- Soldering
- Git Knowledge

Experience

Window Cleaner, 08/2018– 08/2024
2020 Window Cleaning– Coeur D alene, USA

- Developed strong attention to detail, ensuring meticulous and thorough work.
- Adapted quickly to unexpected challenges and problem-solving on the job.
- Managed and coordinated a team, ensuring efficiency and effective collaboration
- Worked independently with minimal to no supervision, maintaining productivity.
- Prioritized tasks and managed time effectively to meet deadlines.

Education

Expected in 05/2026University of Idaho – Moscow, ID
Bachelor of ScienceComputer Science

- Seeking Bachelor's Degree in Computer Science.
- Currently a Junior at University of Idaho CDA
- Experience in C/C++, unix, Python, ML, and Prolog programming languages.
- Undergraduate Researcher

Awards

- Current recipient of the University of Idaho’s Stone Scholarship.
- Current recipient of the University of Idaho’s Semi-Conductor Scholarship.

Projects

I worked on a bit conversion program that would encode a 96-byte color pattern into a compressed 32-byte format. This was done by converting each 24-bit color (8-8-8) RGB into an 8-bit color (3-3-2) RGB. Each color, originally represented by three 8-bit bytes, was compressed into a single byte. However, the program then repeated the encoded output 8 times, ultimately generating 256 bytes of printed data.
I then started repairing the old hardware for the “Goofy Glasses” used by the University of Idaho marching band. This involved diagnosing and testing each pair to identify issues. I would go through a process of soldering and repairing broken wires and LEDs, testing them, and repeating the cycle until the glasses were fully functional. After repairing dozens of pairs, I began building new ones, which involved soldering the LEDs and battery cables, flashing the boards when necessary, and attaching them to the glasses.
This past semester, I’ve been researching and working on implementing the conversion from 96 to 256 bytes, flashing the boards with the new conversions, and ensuring it functions correctly.