Ross Lannen

Computer Science · Engineering

187 Washington Ave, Golden CO, 80403

(970) 691-1304 | ross.lannen@gmail.com | rosslannen | ross-lannen

Summary

Computer Scientist, Engineer, and Collegiate Swimmer. Strong passion for learning about the world around me, and creating things to better it. Love being a part of teams, and a selfless devotion to others I work and interact with.

Experience

Hewlett Packard Enterprise

Fort Collins, CO

Advanced Development Linux Intern

June 2017 — August 2017

- HPE Customer Project: To add features to HPE's memory-driven compute prototype in-memory file system allowing customer's software to run on proprietary hardware. This is to enable the rapid analysis of MRT scans and genome sequencing in support of neurodegenerative research.
- Added support for in-memory subdirectories and symbolic links to allow the customer to create file structures to hold data for analysis purposes.
- Wrote integration tests to ensure the customer's software file system interactions will function as expected.
- Features developed using Python3 and an SQLite database.
- Enhanced the developer experience for HPE's memory-driven computing architecture through documentation and usability improvements to the architecture emulation utility.
- Aided other interns in setting up emulation utility on their systems, enabling them to become productive sooner.
- Added multi-processing to the supercomputing hardware boot scripts which reduced hardware reboot times by 20 seconds per boot. Allows all nodes to power down sumultaneously vs. one node at a time.
- To see contributions made while at Hewlett Packard Enterprise, visit the open source repos at `www.github.com/FabricAttachedMemory`.

RoadX: Bicycle and Pedestrian Challenge

Colorado School of Mines

Team Member · Software and Electronics Lead

January 2017 — May 2017

- Participated in a state-wide engineering competition to reduce the number of bike and pedestrian injuries and fatalities in the State of Colorado.
- Developed a design and working prototype of an interactive bike light system that provides bike frame lights, brake lights, turn signals and headlights thus making the rider easier to see in conditions of low light or darkness.
- Utilized an Arduino microcontroller, LED's, transistors, various sensors, and C Programming to control the working lighting system prototype.
- Won first place in class section competition and advanced to the school-wide judging round.

Beartooth Engineering

Fort Collins, CO

Technician

August 2017

- Assembled and setup PC to correct specifications to run tests for custom electronics equipment.
- Assembled microscope slide heater controllers and cables.

Persosnal Projects

Swim Meet Lineup Entry

August 2017 — Present

- Created swim meet lineup editor UI that allows swim coaches to create meet manager entry files using an intuitive table layout.
- Used Elm, Bootstrap 4, and HTML to create web app.
- Experience with a pure functional programming language.

Athletics

Fort Collins, CO and Golden, CO

Swimming

2005 — Present

- Club, High School, and Collegiate NCAA DII levels.

Education

Colorado School of Mines

Golden, CO

Computer Science

August 2016 — Exp. May 2020

- GPA: 3.736
- Relevant Courses: Data Structures, Intro to Linux, Software Engineering, Database Management, Computer Organization, Probability and Statistics, Discrete Mathematics, Linear Algebra.

Skills

Programming and Markup Languages

Python, C++, SQL, Elm, Java, HTML, CSS, LaTeX, R, MIPS Assembly

Tools and Platforms

Git, Linux, Web Development, PostgreSQL, SQLite, Arduino, Python Debugger, Solidworks, Adobe Creative Suite