Elijah Kloft

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Experience

2 Years

Jaguar Land Rover, Portland OR - *Systems Engineer*

- Migrated JLR's code base from AWS to GCP, while making the system robust through infrastructure as code. Built the project structure in Gitlab using Terraform, which also handled user management. Automated stages of the Gitlab pipeline.
- Developed support for portable, identical working environments for everyone on the team (Vagrant Boxes). Packages and dependencies were managed automatically through Conan.
- Automated our semantic versioning, and inter-project triggering system via our internal CI/CD tooling. This allowed a change to be fully propagated downstream to ensure compatibility with the rest of the system.

2.5 Years

Measuretek, Albany OR - *Systems Engineer*

- Installed and calibrated sensor equipment in hop drying kilns. Trained clients in the use of our software. Performed troubleshooting on the system, tracking down faulty sensors and fixing them.
- Installed multiple irrigation valve systems, allowing water pressure / flow sensors to be read and allowing valves to be turned on/off remotely, or on a schedule. I designed a user interface to neatly display the valve states for the client. I programmed the interface between our Campbell Sci data loggers and the Nelson TWIG irrigation control unit.
- Programmed Banner Engineering wireless radios for both soil moisture monitoring stations as well as weather monitoring base stations, allowing clients to get a fuller picture of what's happening in their fields.

Education

Graduated June 2016

Oregon Institute of Technology, Klamath Falls OR - *Bachelors of Science, Software Engineering Technology & Associates of Science, Computer Engineering Technology*

Junior Project - *C++, Teensy® USB Development Board*
Designed and built a 'Retro Controller Hub' allowing a user to plug in a SNES, NES, or N64 controller into their pc via USB. Now you can play old school games, but with their original controller.

Senior Project - *Java, SQLite, Arduino Uno*
Created a 'Solo Clay Pigeon Thrower'. Developed an Android app which communicated via bluetooth to an Arduino. When wired to a small electric motor, it could activate the firing mechanism on the clay pigeon thrower, allowing a single user to both activate the thrower (after a time delay), as well as shoot the target.