

JOSH ROWLEY

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EDUCATION

Washington State University
BA Chinese Cultural Arts

Pullman, WA
August 2016 - December 2020

Washington State University
BA Computer Science

Pullman, WA
August 2016 - May 2021

EXPERIENCE

Schweitzer Engineering Laboratories
DevOps Software Engineer

Pullman, WA
August 2023 - Present

- Created hardware emulation infrastructure to accelerate firmware development and testing
- Educate teams on holistic development practices, for better testing, building and deployment of software.

Schweitzer Engineering Laboratories
Software Engineer

Pullman, WA
July 2022 - August 2023

- Improved Blueframe's TM maximum DNP3 runtime deployment size 10x through, profiling, adding a persistent cache layer, and optimizing configuration algorithms.
- Refactored Blueframe's TM system-clock synchronization daemon to support SEL 3390T (time), 3390SE (serial) cards.
- Contributed to Blueframe's TM SRS, technologies used, and API standardization spec.

Schweitzer Engineer Laboratories
Associate Software Engineer

Pullman, WA
June 2021 - July 2022

- Worked on SEL's fastest selling software solution, Blueframe TM; A container based OT platform for the critical-infrastructure.
- Contributed to platform wide databus (pub/sub) used by application developers to exchange data accross microservices.
- Increased teams automation server speed, stability and decreased resource usage by 50% through redesigning build pipeline.

Schweitzer Engineering Laboratories
It Analyst Intern

Pullman, WA
October 2018 - December 2020

- Documented internal tooling used by security team to help onboard new employees.
- Added features and simplified code base of HSM server that all company files are signed through.
- Contributed to companies SIEM tooling to help monitor companies network.

SKILLS

Languages and Technologies: C++, C, Go, Python, Groovy, Kubernetes, Containers, gRPC, Containerd, React

PROJECTS

Air-gapped Helm plugin Go

Working on a Helm plugin that pulls and exports container images found in a helm chart, and packages them in a Helm archive. The intent for this plugin, is that a helm chart can provide the set of required images, needed to install a chart. This allows air-gapped Kubernetes clusters to install a chart without pulling from a remote registry.

Embedded Bluetooth controller C++, 3D Printer

Designing and writing a ruggedized embedded (teensy) Bluetooth controller for when I go skiing during the winter. The embedded controller is written in C++, and I'm currently testing differnt 3D printed housing units to hold the controller, and batteries.

HONORS

HIT (Harbin Institute of Technology) Graduating Speaker

CET (Academic Programs)

During my study abroad in Harbin China, I was selected by CET to be the graduating class speaker. I was awarded this honor by being voted the most improved Chinese speaker by all of the teachers. December 2017