

FRANKLIN HARDING

Corvallis, OR · franklin@harding.coffee · (971) 506-0539 · <https://harding.coffee/>

EDUCATION

Oregon State University

Corvallis, OR

Bachelor of Science (Hons.) Electrical and Computer Engineering
Minor in Computer Science

Sept 2020 - June 2024 (expected)

WORK EXPERIENCE

Securing Hardware

Portland, OR

PCB Design Engineer

May 2020 - July 2020

- Designed Tigard: an open source FT232H-based multi-protocol multi-voltage tool for hardware hacking that is now used by a number of hardware developers
- Worked with and incorporated feedback from prominent open source hardware developers

Billups

Lake Oswego, OR

Software Engineer, Engineering Intern

July 2018 - Oct 2019

- Developed and maintained Go and Python backend microservices, contributed features to a large Typescript/React frontend, and participated regularly in code review
- Maintained and setup new infrastructure with Terraform, Cloudformation, and Ansible, transitioned services from AWS ECS to Kubernetes (EKS with Rancher)
- Reverse engineered multiple APIs/websites and developed tools for scraping them en masse

SKILLS

Programming: C, C++, Rust, Python, Java, Go

Databases: PostgreSQL, MySQL/MariaDB, MongoDB

Infrastructure: Terraform, Cloudformation, Ansible, ECS, EKS, EC2, Kubernetes, Rancher

Electronics: KiCAD, ngspice

PERSONAL PROJECTS

Gloworm

<https://gloworm.vision/>

Designed and handled manufacturing as well as distribution for Gloworm: a Raspberry Pi Compute Module 3+ based smart camera for vision tracking in FIRST Robotics competitions.

Peregrine

<https://github.com/Pigmice2733/peregrine-backend>

A web app utilizing Go, PostgreSQL, and React that I developed in high school with a small team for reporting and analyzing the performance of robots in FIRST Robotics competitions.

BSidesPDX 2019 CTF

<https://harding.coffee/2019/10/bsides-pdx-ctf-2019.html>

Developed all three web application security challenges for the BSidesPDX 2019 conference Capture the Flag event.

Open Source Maintainer

<https://github.com/fharding1/>

Member of the Gorilla Web Toolkit organization (gorilla/mux maintainer), Tigard and Gloworm core maintainer.