IVY LU
ENGINEER
DESIGNER

IVY@IVY.DIRECT
(650) 695 2882

I'VE WORKED WITH

Angular **SvelteKit NodeJS**

Deno Docker Git GitHub

Jenkins NGINX JavaScript

TypeScript Go C C++ Python

MySQL MongoDB DigitalOcean

AWS Azure **nRF52/nRF53**

nRF SDK ESP32C3/ESP32C6

Zephyr RTOS Verilog

FPGA (Intel Altera DE-10)

Teamwork & Creativity

Communication & Initiative

MORE ABOUT ME

+full-stack developer
+skilled UI/UX designer
+HW design experience
+open-source portfolio
+strong technical writing
+documentation skills
+highly multidisciplinary
+fast to learn & adapt

EXPERIENCE

FIRMWARE INTERN + RETURN INTERNSHIP   LEVEL HOME

Summer of {2024, 2025} • Full-Time • In-Office • Compensated

[2025]: Hardware evaluation for analog power measurement, investigated and debugged components for comparator circuitry, amplifiers, buck-boost power supplies. Wrote firmware Developed FW platform for test hardware, time-critical components. A/B testing.

[2024]: Developed SW platform for robust test execution, CI integration, and hardware fleet management.

INDEPENDENT CONTRACTOR   LEVEL HOME

2023 - 2024 • Part-Time • Hybrid • Compensated

Developed internal MDU tools, provisioning software, fleet management UI, and 3D visualization tools with three.js.

VP OF INFRASTRUCTURE   PINNACLE

2021 – 2023 • Previously I.C. • Part-Time • Volunteer

Led infrastructure team for handling attendee experiences: custom social network, event portal, and public website. Improved development speed with new internal libraries and documentation. Used SvelteKit, NodeJS, Express, MongoDB, and Docker, deployment on AWS.

PROJECTS

ANALYTICS   @IVYNYA/ANALYTICS

2022 – 2023 • FOSS on GitHub • *Go, Docker,* & *Notion*

Notion integration/API for user or consumer KPIs. Over 150,000 interactions logged since inception.

MURA   @IVYNYA/MURA

2023 – 2025 • FOSS on GitHub • *Go, SvelteKit, Docker, Nginx*

A delightful web scheduler for coordinating meeting times.

20+ MORE PROJECTS DOCUMENTED ON IVY.DIRECT, MY INTERACTIVE PORTFOLIO SITE

EDUCATION

UNIVERSITY OF CALIFORNIA, DAVIS

3.8 GPA • 2024–2026 • BS Computer Engineering • *Tau Beta Pi*

FOOTHILL COLLEGE

4.0 GPA • 2022–2024 • AS-T Computer Science • *CS Club*

github ·········· ivy.direct/github
website ········· ivy.direct/portfolio

Zephyr Project Technical Contributor

2025