IVY LU

ENGINEER DESIGNER

IVY@IVY.LU
(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 + RETURNING — **LEVEL HOME (ASSA ABLOY)**

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