

Ryan Duke

SOFTWARE ENGINEER

Chico, CA (open to relocation) · hello@canopynorcal.com · +1 530 433 4944 · luther-rotmg.com · github.com/luther-rotmg

SUMMARY

Self-taught software engineer who ships production tools and keeps them running. I built and solo-maintain POE2GPS, a real-time game overlay with 1,000+ daily users and 90 releases since May 2026, and I work across the stack, from web apps to binary protocols and Android internals.

PROJECTS

POE2GPS — real-time overlay & navigation for Path of Exile 2

2026 — present

C# · Cloudflare Workers · solo build

- Built and solo-maintain a live desktop overlay that reads game state and guides players through maps in real time; 1,000+ daily active players.
- Shipped 90 tagged releases across 745 commits since the May 2026 launch, patching within days of each game update.
- Run the full stack alone: Windows overlay client, Cloudflare Workers backend, and supporter/licensing tooling.

RealmStock — Co-founder & Engineer (1 of 3)

2016 — present

realmstock.com

- Co-founded a three-person company and built its e-commerce platform from the database up: storefront, checkout, and an automated instant-delivery pipeline.
- Reverse-engineered the game client and its network protocol to ship free community tools, including a custom client and a real-time event notifier.
- The platform has run continuously for nearly a decade and remains one of the largest of its kind.

Tincture — Path of Exile 2 build-meta tool

2026

Python · GitHub Actions · tincturepoe2.com

- Reads the top of the ladder hourly through poe.ninja and distills 124,000+ characters into a ranked build list across every league variant.
- One-click "decant" writes a build straight into the game's planner via the File System Access API, with no backend and no tracking.

Custom Android ROM — 5M+ downloads

XDA Developers

smali / baksmali · firmware internals

- Ported Android 4.0 (Ice Cream Sandwich) to devices that never officially received it, adapting the framework from a supported device to older hardware with shared internals.
- Worked at the bytecode level: decompiled system APKs to smali, patched and recompiled the framework, and edited build.prop and firmware internals; one ROM I contributed to passed 5,000,000 downloads.

Reverse-engineering tools — live, in-browser

JavaScript

- APK Inspector, Packet Visualizer, and APK Security Scanner: browser tools that dissect Android packages and network captures entirely client-side, built on from-scratch parsers for Android binary XML and pcap/pcapng validated byte-for-byte against independent implementations.

EXPERIENCE

National Parks Recreation — Web Developer

2017 — present

Chico, CA · Ruby on Rails, JavaScript, CSS, Bootstrap

- Develop and maintain the organization's production website through the full development cycle, keeping it stable and to spec.
- Diagnose and resolve issues through root-cause analysis; run user-acceptance testing before release.

Honeywell Aerospace — IT Specialist

2019 — 2020

Tucson, AZ

- Deployed and maintained embedded systems following strict technical procedures in an aerospace environment.
- Troubleshoot and repaired hardware, and translated deep technical detail into plain language for end users.

Canopy — Founder

canopynorcal.com

- Founded a web studio building sites for Northern California retail and restaurants; handle design, build, and delivery end to end.

SKILLS

Languages: C#, Python, JavaScript, Ruby, HTML/CSS, smali

Web: Ruby on Rails, Bootstrap, REST APIs, static sites, Cloudflare Workers, responsive UI

Reverse engineering: disassembly, bytecode patching, network-protocol analysis, binary formats, Android internals

Tooling: Git, GitHub Actions, Linux, VMware, VS Code

EDUCATION

Butte College — Clinical Psychology (in progress)

2022 — present

GED

2013