Griffin Hale Jack

Technical systems and integrations · Python, TypeScript, SQL, Linux

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EXPERIENCE

Independent Developer · KnownBetter Studios, LLC · Silicon Forest Solutions LLC 2026 – Present · Portland, OR

- Built a market-assessment system that brings advertising and search data into one reporting workflow, with reusable connectors for Meta, Google Ads, Microsoft Advertising and Search Console.
- Built a website and booking system for a drum studio; database constraints refuse double bookings, including simultaneous requests.

Embedded Systems / Ultrasound Repair Technician · Sonovision Jan 2025 – Aug 2026 · Portland, OR

- Diagnosed mechanical, electrical and software faults across 60+ ultrasound models; repaired firmware and board-identity data with manufacturer and custom tools.
- Developed a firmware-recovery process that restored unusable systems subsequently sold for approximately $50,000 combined.
- Built diagnostic tools by tracing device communication and reverse-engineering undocumented data formats.
- Built a nightly SQL pipeline for 30,000+ assets across 2,300+ part and equipment models, reconciling identifiers and duplicate records across inventory and shipping.
- Built browser tools and a label service used daily by 12 coworkers. Cut label printing from six clicks to one and led rollout and support.

SELECTED PROJECTS

griffinhale.com/projects

Homelab Linux · NixOS · Proxmox · Docker

- Operates four physical machines and five VMs, with VLAN segmentation and firewall rules controlling traffic between networks.
- Keeps service configuration in Git and backups on TrueNAS. Isolated restores verified Forgejo and applications data; the media VM restore remains partial.

Catlg catlg.app TypeScript · Fastify · PostgreSQL

- Connects 10 metadata providers and 23 library sources. Separates shared catalog data from personal progress so updates preserve user records.
- Added database safeguards and concurrency tests against duplicate imports, reused sign-in codes and conflicting ranking updates.
- Automated production-to-staging copies with database guards, credential scrubbing and isolated storage to test changes against current data.

Corne Arcane OLED github.com/Griffinhale/corne-arcane-oled C11 · RP2040 · QMK/ChibiOS

- Runs one synchronized simulation across a split keyboard's two displays, with fixed memory allocation to fit the hardware and automated tests that keep the firmware and browser versions consistent.

SKILLS

Code and data	Python · Rust · TypeScript/JavaScript · SQL · C · PostgreSQL · REST APIs
Systems	Linux · Docker · DNS · TLS · VLANs · Prometheus · Grafana · Loki
Diagnostics	Ghidra · GDB · QEMU · UART · SPI · JTAG/SWD

EARLIER EXPERIENCE

Food Service and Hospitality, various restaurants, 2016 – 2021 · Recording Engineer, self-employed, 2017 – 2020

EDUCATION

Associate of Arts · Portland Community College 2024 · Portland, OR

Computer science focus · GIS certificate coursework after the AA