Griffin Hale Jack

Data analysis · SQL, Python, PostgreSQL, GIS

Portland, OR · open to remote · (503) 312-8556 · griffinhale.3@gmail.com
griffinhale.com · github.com/Griffinhale · linkedin.com/in/griffin-jack-5157b8295

EXPERIENCE

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

- Own client software end to end: scope, data model, deployment, support; AI-assisted code held to specs and tests.
- Built the data plumbing for a FastAPI/PostgreSQL system that supports a practitioner's assessment of a new market: replayable adapters for Meta, Google Ads, Microsoft Advertising and Search Console, and PDF reports that state each platform's limits beside every reading.

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

- Reconciled 30,000+ assets across 2,300+ part and equipment models: used SQL over the nightly inventory exports to map two conflicting ID systems together, merge duplicates and check the merges against known-good records and shipment and receipt tables.
- Built a parts fit-and-substitution store over shipment records, service manuals, email archives and supplier listings, every claim carrying its source and a confidence score; techs used its on-device vision label identifier in the field.
- Returned ultrasound systems across 60+ models to service from symptoms, logs and board behavior; reflashed firmware and VPD data and built Python and Rust bench tools.

SELECTED PROJECTS

griffinhale.com/projects

Spatial Analysis ArcGIS Pro · arcpy · pandas · ESA SNAP

- Tested whether Portland's electrification tracks poor grid reliability: an eight-step ArcGIS Pro/pandas pipeline joined ~80,000 geocoded permits, EV registrations and PGE SAIDI/SAIFI filings onto feeders. Spearman rho across 548 areas was near 0.05, little correlation; the overlap ranking still gave ten hotspots for engineering review.
- Mapped a Coquille River flood from Sentinel-1 SAR in ESA SNAP against FEMA flood zones, and tested Oregon drinking-water quality against test scores.

Catlg catlg.app PostgreSQL · TypeScript

- Combines 10 metadata providers and 23 library connectors in PostgreSQL. Separate catalog, source and user records preserve personal data during refreshes.
- Matches by external ID before title and sends ambiguous matches to a per-service repair list; in production that rule took a Jellyfin library from 197 unmatched items to 0.

SKILLS

Analysis	SQL · pandas · Spearman correlation · ArcGIS Pro/arcpy · spatial joins · ESA SNAP · Sentinel-1 SAR
Data	PostgreSQL (schema design, constraints) · nightly ingestion · record reconciliation and deduplication
Tools	Python · TypeScript · FastAPI · Django · pytest · Git · Docker

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