

## JARON ROSENAU

Software Engineer - Backend / Cloud

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GitHub: [denuoweb](#) | LinkedIn: [jaronrosenau](#) | Portfolio: [rosenau.info](#)

Backend-focused software engineer. Production experience shipping and operating Python/TypeScript services and cloud workloads. Built and ran a public-facing, gamified bicycling platform. Comfortable owning delivery end-to-end: requirements - implementation - CI/CD - deploy - monitoring - iteration.

### TECHNICAL SKILLS

- **Languages:** Python, TypeScript, SQL, Bash, C++
- **Backend:** Flask, APIs, auth, webhooks, background jobs, data modeling
- **Data:** PostgreSQL, Redis, schema migrations, indexing (Firestore/Cloud Storage)
- **Cloud/DevOps:** Linux (Debian), NGINX, Docker, Terraform, CI/CD (GitHub Actions)
- **Testing/Quality:** pytest; automated checks (lint/test/build/smoke) in CI

### EXPERIENCE

**Software Engineer / Owner** - Denuo Web, LLC (Remote) *Mar 2024 - Present*

- Built and operated [QuestByCycle.org](#), a production web platform that motivates bicycling via quests, badges, and leaderboards (Flask backend, Vite frontend) deployed on Debian Linux.
- Owned the full production stack: API design, authentication, PostgreSQL + Redis data model, server configuration (NGINX/Gunicorn), deployments, and ongoing maintenance.
- Ran public pilots and iterated from real user behavior and feedback (4 pilots; 100+ users); shipped incremental releases improving usability and engagement.
- Authored developer and production runbooks, including reproducible local setup and a Debian 12 production server setup path to reduce onboarding friction and configuration drift.

**Software Developer** (Lab Assistant) - Lane Community College (Eugene, OR) *Sep 2023 - Dec 2023*

- Built Flask services including a secure password reset workflow and a tracking dashboard.
- Implemented UNIX-socket backends, automated email sending, and configuration management to support repeatable deployment and operation.

**Software Developer** (Contract) - Htmlcoin (Remote) *May 2018 - May 2022*

- Maintained and extended a production fork of distributed node software; performed recurring rebases/merges from upstream and resolved conflicts across releases.
- Coordinated changes across multiple repositories/languages (TypeScript/Node, Java, Python) to keep tooling and client-facing behavior consistent; operated public-facing Linux web servers and authored repeatable deployment/operations procedures.

### PROJECTS & RECOGNITION

- **CrowdPM Platform (TypeScript/Firebase/Cloud)** - Crowd-sourced PM2.5 monitoring stack; built CI/CD with GitHub Actions (PR quality gates; automated demo-style deployments; build/deploy/smoke checks).
- **DripCopy (Bash)** - Fault-tolerant, rate-limited optical media copier for underpowered USB hosts: resumability, atomic writes, retry/remount behavior, deduplication, structured logs.
- **Copy Open Tabs - VS Code Extension (TypeScript)** - [Published](#) extension that copies open tabs to clipboard with relative-path headers.
- **Security Disclosure Recognition** - [Listed](#) in U.S. DoE responsible disclosure acknowledgments.

### EDUCATION

**BS Computer Science** — Oregon State University (Corvallis, OR)

*Expected Jun 2026*

Applied Program: **Software Engineering and Systems Security**

*GPA 3.15*

Available for internships/part-time now; full-time starting Jun 2026.