Eire Ford

AI, data and identity engineer for teams handling sensitive data · Vancouver, WA · eireford@gmail.com · GitHub

Open to full-time, part-time and contract roles.

Summary

Engineer with 15+ years in backend services, data pipelines, identity and access, and test automation, on systems that hold sensitive data: student records under FERPA, health and financial records under HIPAA, SOX and PCI, and client video. I now build with AI coding agents and help teams put AI into real systems without exposing that data: clean integrations, scoped accounts and permissions, and tests that catch mistakes.

Recent Work

LessPane | lesspane.com | source

2026

- Built and shipped an instant-quote and booking web app for a window-cleaning business, to the owner's specification, using AI coding agents.
- SvelteKit and TypeScript on Google Cloud Run, with all prices recomputed on the server, private manage links stored only as hashes, and optional Google Workspace email and calendar integration.
- Unit tests plus a headless-browser smoke test that plays every control and books, reschedules and cancels a job.

We Do Compute | wedocompute.com

2023 – present

- Independent practice offering test automation, data connectors and small AI automations.
- Site with a Gemini-backed support assistant that answers only from a written brief (Next. js, FastAPI, Cloud Run, Cloud Build with staged deploys).

This site

- Résumé with an AI assistant that answers questions about it, plus PDF, HTML and Markdown downloads (Micronaut, Java 21, Vertex AI, Cloud Run).

Experience

Substitute | Vancouver Public Schools | Vancouver, WA

Current

- Work in classrooms across the district, which gives me first-hand knowledge of how teachers and students use school technology day to day.

Senior Software Engineer | Remotely Video | Portland, OR

August 2021 – December 2022

- Designed and built a multi-tenant **identity and access API** in Python/Flask with Auth0 and Google Workspace, giving single sign-on and role-based access across AWS S3 and FreeNAS.
- Built video transfer and ingestion pipelines with Python, QUIC and Docker, with checksum validation and auditing of privileged access.
- Automated **CI/CD** for Python APIs, Node.js/Strapi services and React apps with Jenkins and GitHub Actions; wrote CloudFormation and Docker Compose infrastructure.
- Worked with product, business and outside teams on user stories, estimates and sprint plans.

Software Engineer | DF Studio | Los Angeles, CA (remote)

April 2018 – December 2018

- Built automated **end-to-end and functional tests** with Selenium WebDriver and Jenkins for Java/Kotlin and Vue applications.
- Extended CI/CD to run performance and **security tests** covering CSRF, code injection and broken access control.
- Researched and implemented web security fixes using OWASP ESAPI.

Analyst Programmer II | University of Oregon, College of Education (Global & Online Education) | Eugene, OR

April 2012 – June 2016

- Designed a highly available **online learning platform** (LAMP) serving 3,000+ concurrent international users at 99.99% availability, with role-based access and auditing.
- Built **single sign-on middleware** and APIs in PHP (Laravel/Lumen) with OAuth and LDAP.
- Kept systems within **HIPAA and FERPA** requirements across institutions and countries.
- Oversaw a third-party front-end team, including code review and automated security and functional testing.

Software Development Engineer in Test | Palo Alto Software | Eugene, OR

November 2010 – March 2012

- Wrote cross-browser and mobile test suites in Java with TestNG and Selenium WebDriver.
- Set up CI/CD and monitoring with Jenkins and CloudFormation for performance, availability and functionality.

Senior Systems Implementation Engineer | Lumigent Technologies | Acton, MA

October 2005 – November 2008

- Implemented auditing and rule-enforcement systems for **SOX, HIPAA and PCI** compliance on Oracle RAC and MSSQL clusters.
- Delivered configuration, change-management and privileged-access auditing for financial, healthcare and government clients.
- Managed client escalations, mentored support staff, and trained technical and non-technical users.

Skills

- **Languages:** Python, Java, JavaScript/TypeScript, SQL, Kotlin, PHP.
- **Backend and APIs:** REST, Flask, FastAPI, Micronaut, Node.js, Laravel/Lumen.
- **Identity and security:** OAuth 2.0, SSO, LDAP, Auth0, role-based access, OWASP practices.
- **Data:** PostgreSQL, MySQL, Oracle RAC, SQL Server, ETL, schema design, data migration.
- **Cloud and delivery:** Google Cloud (Cloud Run, Cloud Build, Vertex AI), AWS (S3, CloudFormation), Docker, Jenkins, GitHub Actions.
- **Testing:** Selenium WebDriver, TestNG, Playwright, JUnit, pytest, test-driven development.
- **AI:** building with AI coding agents; Gemini on Vertex AI with grounded system instructions.

Education

Western Governors University

B.S. Computer Science, expected November 2028

Coursework (Coursera)

- Advanced Machine Learning on Google Cloud (2021)
- Deep Learning (2020)
- Data Engineering with GCP (2019)