

Zi Feng

Backend Engineer | zifeng.dev | linkedin.com/in/zifeng1 | zif2022@gmail.com | Redmond, WA

SKILLS

Languages: Python, Java, JavaScript, SQL (Postgres, Trino, Spark)

Backend & Data: data architecture and modeling, REST APIs, event-driven systems, microservices, Git, pytest, mypy

Cloud & Infrastructure (AWS): Lambda, Glue/Kinesis, DynamoDB, S3, Athena, Redshift, CloudWatch, CI/CD

EXPERIENCE

Data Engineer – Amazon

August 2025 – Present

- Architected Amazon LEO's first unified statistical process control data platform (AWS and Grafana), owning 12 Glue pipelines processing 50,000+ manufacturing records daily across 7 cross-functional teams
- Built real-time anomaly detection and alerting across 8,000+ parameters using AWS Lambda, DynamoDB, and Kinesis, eliminating continuous manual monitoring and improving production yield by 10%
- Released a Lambda REST API detecting Nelson Rules and relevant statistical patterns, enabling other teams to self-serve integration, saving ~1 day of onboarding each
- Built AI-driven risk models using AWS Bedrock that automate fishbone diagrams, 5-Why root cause analysis, and historical issue research, reducing initial alert investigation from 1 hour to a 5-minute read
- Engineered scalable ETL architecture, standardized data model, and distributed systems practices, improving refresh performance by 90% and reducing analytics development cycles from 3 weeks to 1 day
- Authored organization-wide SPC policy establishing process monitoring, root cause analysis, and continuous improvement standards that support AS9100 compliance across 6 facilities

Software Engineer – Intsu Studios

May 2025 – Present

- Founded Fin, a free, privacy-first personal finance and career tracker built as a comprehensive alternative to paid tools and subscriptions
- Designed and launched a custom restaurant website, driving a 20% increase in customer conversion

Systems Engineer – Redwood Materials

August 2024 – August 2025

- Redesigned the Incident Reporting and Problem-Solving application, cutting operational waste by \$50,000+ annually
- Built and contributed to internal engineering tools (Python, Java, React, FastAPI), improving lab, chemical, and materials workflows, saving \$35,000+ annually
- Designed dashboards to track 2000+ samples, lab results, and material flow for engineering departments, saving \$20,000+ annually
- Automated manual tasks using Python and Power Automate, improving operational efficiency by 15%

PROJECTS

Fin – fin-intsu.vercel.app (React, Tailwind, Vite, Supabase, IndexedDB, Vercel)

June 2026

- Architected two-mode system implementing both Supabase cloud users and decentralized local-only IndexedDB users, delivering a near identical user experience while providing options for data handling

Siu Korean BBQ – siukoreanbbq.com (HTML, CSS, JavaScript)

May 2025

- Built a fully custom static site featuring custom animations, interactive menus, and Google Maps integration

EDUCATION/CERTIFICATIONS

B.S. Software Engineering – Western Governors University

May 2025

AWS Cloud Practitioner – Amazon Web Services

August 2024