Nathan Liska

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Experience

Amazon – Software Development Engineer, Device Subscriptions Arlington, VA | July 2022 – May 2026

- Led a full-stack redesign of device subscription checkout serving hundreds of thousands of monthly page visits across Blink, Alexa+, Ring, and other product lines, spanning JSP frontends with TypeScript client logic, Java service APIs, Python Lambdas, and TypeScript CDK infrastructure
- Built Alexa+ device detection from the ground up and generalized the eligibility model from country to US state granularity, adding service endpoints and schema changes to satisfy FTC compliance; coordinated delivery across Blink, Alexa, Ring, legal, and tax teams with no measurable impact on conversion
- Expanded purchase infrastructure across four international marketplaces using Java service APIs, integrating ∼5 systems for payments, currencies, taxation, and localization; led the Blink bundle launch in Canada
- Designed an AWS Step Functions validation platform for subscription accounting and tax workflows, authoring the high- and low-level design documents and cutting testing timelines by 30–50%
- Built a parallelized Selenium validation platform in Java, JavaScript, and Python running in CI/CD on EC2, covering ∼50 end-to-end cases across 8 suites with configurable test data, detailed failure reporting, and AI-assisted triage and selective reruns, saving roughly 4 weeks per launch
- Owned on-call rotations for multiple production services, resolving Sev-2 incidents, remediating recurring defects, driving dependency and security migrations, and overhauling team on-call procedures and runbooks

Projects

Multi-Agent Development Workspace 2026 – Present

- Built a Tauri desktop application in Rust and React with TypeScript for orchestrating concurrent Claude and Codex worker sessions, with local Ollama routing, across parallel project workflows
- Implemented provider-neutral session routing, persistent worker state, Model Context Protocol (MCP) integrations, resumable workflows, and interactive permission handling

FrontDashboard | dash.zalis.app 2021 – Present

- Designed, built, and operate a multi-user dashboard platform with recurring calendar workflows, notifications, and inherited sharing permissions using FastAPI, SQLAlchemy, PostgreSQL, and React
- Implemented SSE-based state synchronization across clients, with Testcontainers-backed integration tests, Alembic schema validation, CVE auditing, and Docker deployment behind Caddy

Amazon Acronym Tooltip Extension 2024

- Built a browser extension with a 3-person team that surfaced definitions for Amazon internal acronyms on hover; adopted by several thousand employees and won first place in an internal hackathon

Skills

Languages: Python, Java, JavaScript, TypeScript, Rust, SQL
Frameworks: React, FastAPI, Node.js, SQLAlchemy, Tauri, Selenium, JUnit, TestNG, pytest, Jest, Testcontainers
Infrastructure: AWS (Lambda, Step Functions, ECS, S3, DynamoDB, SQS, CloudWatch, CDK), Docker

Education

University of North Carolina at Charlotte Dec 2021
Bachelor of Science in Computer Engineering, Minor in Mathematics | GPA 3.6 (Honors)