

- Led Product Engineering team, driving feature delivery for government and nonprofit aid programs. Defined Design and Product discipline and partnered cross-functionally to ship greenfield initiatives for key customers and partners. (Node, TypeScript, React, Tailwind, Express, and Postgres)
- Built geospatial capabilities (PostGIS, OpenLayers, Turf) enabling interactive mapping, spatial analysis, and real-time impact insights. Supported LA Wildfire Relief programs, distributing \$25M+ in aid.
- Developed fraud-mitigation pipeline with vector-based document-similarity analysis (pgvector, sentence-transformers) to improve detection performance and processing throughput.

② Principal Software Engineer 2021 — 2023

- Led Web Platform team, managing full-stack engineers and QA, to launch SaaS platform for passwordless authentication with IdP (Okta, G Suite, Azure AD) and workstation integrations.
- Designed & implemented passwordless VPN solution over RADIUS to expand customer adoption, enabling “passwordless everywhere” with Kotlin, Spring Web, TypeScript, and React.
- Built design system & component library, ensuring WCAG AA compliance, and accelerating feature velocity across GTM and customer-facing products. Collaborated within the FIDO Alliance on accessible implementation of Passkeys.

③ Senior Member of Technical Staff 2018 — 2021

- Launched AWS Savings Plan Explorer, building Java/Spring APIs and React/GraphQL UI for cost optimization insights.
- Scaled global engineering culture, relocating to London to grow teams (EMEA/APAC) and deepen collaboration with Boston HQ.

④ Senior Software Engineer 2016 — 2018

- Full-stack Ruby on Rails development supporting AWS & Azure cloud infra reporting, automation, and optimization features.
- Developed Azure SQL DB Rightsizing engine with “Efficiency Targets” to improve recommendation accuracy and AWS Reserved Instance Optimizer.