

Mohammad El Prince

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[LinkedIn](#) | [Github](#) | [Portfolio](#)

SOFTWARE DEVELOPMENT ENGINEER

Software engineer with a data background who builds and ships production systems on AWS. Designed and deployed 15+ serverless applications and a multi-region web platform serving operations teams at Amazon fulfillment centers. Strong in TypeScript, Python, and cloud infrastructure, with a bias for ownership and delivering end-to-end.

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, HTML/CSS, SQL | **Frameworks:** React 19, tRPC, Node.js, Vitest | **Cloud & Infrastructure:** AWS (Lambda, CDK, DynamoDB, S3, CloudFront, EventBridge, SES, SNS, CloudWatch, RUM, WAF, Route 53), Infrastructure as Code | **Tools:** Git, Nx, Vite, ESLint, Prettier

TECHNICAL PROJECTS

Quality Management Platform (*Amazon Confidential*)

Full-stack web application addressing fragmented coaching workflows. Previously, quality coaching was scattered across teams with low manager adoption. Built centralized platform enabling managers to track inventory discrepancies, analyze defect trends, and manage coaching workflows across North American Fulfillment Centers.

- Designed and built a TypeScript monorepo (React 19, tRPC, AWS CDK) with a serverless API layer, CDN-based auth, and infrastructure-as-code.
- Implemented edge-level authentication with Lambda@Edge, role-based access control, and real-time user monitoring.
- Developed analytics dashboards for defect tracking and associate performance, with multi-location filtering and manager-level data aggregation.
- Launched MVP at pilot location; expanding to 8+ additional locations based on positive adoption and user feedback.
- Maintained 100% test coverage across 6 packages with automated CI/CD, using Vitest, ESLint, and snapshot testing.

YasMade - [GitHub](#) | [Demo](#) | [Live](#)

Full-stack e-commerce platform built for wife's embroidery business. Currently in production with active customer usage and continuous improvements based on real-world business needs.

- Architected React (Vite) + Supabase full-stack application with secure checkout, admin dashboard, and product management.
- Implemented Zustand for global state management (cart, auth, UI) with optimistic updates for smooth UX.
- Built admin dashboard enabling real-time inventory tracking, order management, and customer analytics.
- Designed responsive, accessible UI with light/dark mode and custom branding.
- Processing live customer orders; continuously iterate based on business feedback.

RECENT PROFESSIONAL EXPERIENCE

Amazon, Multiple Locations (Hamilton, St. Thomas, London, Mississauga, ON) 05/2021 - Present

Data Analyst - Software Development Focus (02/2025 - Present)

- Designed and built a full-stack quality management web application (React 19, TypeScript, tRPC, AWS CDK) with serverless APIs, DynamoDB, and role-based access control, serving managers at NA FCs.
- Developed 15+ serverless data automation tools (Python, AWS Lambda, CDK, EventBridge) that processed operational data from S3 and internal APIs, delivering real-time alerts via Slack, email (SES), and SNS to operations teams, covering inventory accuracy, equipment monitoring, ticket tracking, and workforce analytics.
- Owned the full software lifecycle for each tool, from requirements gathering and architecture design through infrastructure-as-code deployment (AWS CDK), CI/CD pipeline configuration, and production monitoring, demonstrating end-to-end SDE capabilities beyond the data analyst role.
- Conducted architecture reviews and design discussions with data analyst teammates, helping them understand serverless patterns and AWS CDK best practices

Previously: Operations roles (2021-2024) | Transitioned to software development in 2025

EDUCATION

Amazon Web Services – AWS Certified Solutions Architect – Associate 03/2026

Amazon Web Services – AWS Certified Cloud Practitioner 07/2025

Flatiron School 02/2023 - 10/2023

Full Stack Web Development, Python and JavaScript online program

University of Guelph, Guelph, ON 01/2019 – 02/2021

Master of Engineering — Mechanical Engineering (course-based)