

Ahmed Albarghouti

Software Engineer

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Ottawa, Ontario, Canada

Software Engineer specializing in payments infrastructure, with deep experience across TypeScript, Node, React, and Python. Proven track record of building processor-agnostic systems and scaling services to handle millions of transactions.

Work Experience

Software Engineer Apr 2025 - Present

Lightspeed Commerce | Ottawa

- Led development of the dispute management system, driving cross-functional alignment with product managers, designers, and partner product teams to enable merchants to self-serve by challenging or accepting disputes directly in the merchant portal. Reduced support tickets by over 95% and eliminated manual dispute notifications.
- Drove a 25% increase in dispute challenge rate and an additional 10% lift in win rate by streamlining the challenge workflow and surfacing evidence requirements to merchants.
- Designed a processor-agnostic ingestion state machine to normalize dispute lifecycle events across Stripe, Adyen, and other payment processors, unifying downstream handling regardless of upstream provider.
- Architected the subscriber notification system for the merchant portal, leading technical direction and delivery while enabling merchants to configure notification routing and locale on a per-domain basis across Disputes, Payouts, Capital, and other product areas.
- Contributed to the Register SDK and resolved processor-agnostic terminal pairing issues, improving reliability of in-person payment device onboarding across PSPs.
- Serve as the team's point onboarding engineer, owning new hire ramp-up, knowledge transfer, and mentorship for engineers joining the payments group.

Full Stack Engineer Oct 2024 - Apr 2025

Freelance

- Built e-commerce platforms with integrated payment systems, authentication, and complex user workflows using Next.js, TypeScript, Python, MongoDB, MySQL, and Docker for multiple clients.
- Architected scalable solutions on AWS/GCP with Next.js/TypeScript frontends and Express.js backends, managing client relationships end-to-end while maintaining quality through TDD.

Full Stack Engineer Oct 2022 - Sep 2024

Medavie Blue Cross | Ottawa

- Reduced claim processing from 30s to 5s through async REST requests and Redis/Oracle SQL optimization with Java backend services.
- Designed and implemented a batch autopay system using React frontend and Java microservices, serving hundreds of thousands of customers.
- Maintained React/Java-based claims processor handling millions of customer transactions on Kubernetes with Grafana monitoring.
- Mentored junior developers in React and Java best practices while collaborating with QA, product, and payments teams to deliver aligned solutions.

Information Technology Programmer Sep 2021 - Oct 2022

Rideau Transit Maintenance | Ottawa

- Developed SharePoint sites, automation tools, and internal systems supporting 50 staff members.

Education

Algonquin College of Applied Arts and Technology Sep 2019 - Apr 2021

College Diploma Computer Programming