

Mathuran Sadagopan

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Skills

Programming Languages: TypeScript, JavaScript, Kotlin, Java, Python, SQL

Frameworks: Next.js, Express, Spring Boot, Node.js, React.js, TanStack

Databases & Cloud: PostgreSQL, DynamoDB, AWS (EC2, Fargate, Lambda, SQS), Docker, CI/CD, Inngest

AI/ML & Tools: Gemini, llama-parse, llama-index, AI-SDK, LangGraph, LangChain

Education

Accelerators: Next36, Google for Startups, a16z Speedrunner | June 2024 - Present

McMaster University | BEng of Computer Engineering (CO-OP) | April 2021

AWS Certified Solutions Architect - Associate | May 2023

Experience

Quanto | Technical Co-Founder | June 2025 - Present

Building AI-powered bookkeeping and tax preparation solutions for startups and creators.

- Architected and developed 5 AI-powered backend solutions using Next.js, Express, PostgreSQL, Inngest
- Launched long-running agent system for client onboarding and month-end review automation, reducing onboarding time by 40%
- Built queue-based orchestration system with AWS Fargate and Inngest, processing 1,000+ transactions/month
- Built LLM-based transaction coding system for QuickBooks with 70% accuracy, reducing manual work by 20%
- Improved CI/CD and testing by adding staging and production environments with comprehensive test coverage
- Led engineering team of 4; delivered MVP in 2 weeks; secured \$400K pre-seed funding

Rooster Financial | Software Engineer | August 2023 - March 2024

Creating a financial intelligence platform to help people grow their nest egg.

- Created a RAG service that summarizes financial data and provides insights [Python, llama-index]
- Built a web app to manage and visualize financial data for different accounts [React, Next.js, PostgreSQL]

Amazon | Software Development Engineer | June 2021 - March 2023

Delivered fraud prevention solutions in Amazon consumer payments using cloud-scale distributed technology.

- Increased net customer purchases by ~\$10M by reducing card testing; developed cloud-native solutions ensuring high consistency and availability [Kotlin, AWS SQS, Fargate]
- Improved service availability across 5 AWS regions and prevented brownouts by implementing real-time client throttling limits [Java, Spring Boot, AWS App Config]
- Leveraged stress testing and anomaly detection to identify and fix performance bottlenecks [Java, AWS]
- Fixed 2 bugs in away team code that unblocked Real-time CVV verification launch in 7 marketplaces
- Resolved 2 issues blocking worldwide Real-time CVV verification for 1 year in 3 months
- Saved \$80,000/year by auditing service costs and removing unused infrastructure

Microsoft | Software Engineer Intern | May 2020 - August 2020

Created features for Microsoft Teams for Android and Windows PowerToys. Quickly learned and adapted to multiple projects and independently launched features.

- Fixed 3 user pain points in Microsoft Teams for Android via 3 new features using Android Java/Kotlin
- Produced features that complied with 100% of Microsoft and Android accessibility guidelines