

Aayush Dani

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Software Engineer | Full-Stack, Backend & Applied AI

Experience

Intuit | QuickBooks

Jun 2024 - Present

Software Engineer 2, Indirect Tax Platform

New York, NY

Promoted from Software Engineer 1 in **14 months**; **four Spotlight awards**.

- Led **tax engineering for QuickBooks' invoicing rewrite** from Jan 2025; became tax-layer CODEOWNER, implemented inclusive/exclusive pricing, tax overrides, discounts, and service integrations. Coordinated six engineers through a rollout reaching roughly **1.4M US users** and all supported international markets.
- Owned **five sub-epics** for the Sales Tax Liability report, addressing QuickBooks' top sales-tax complaint theme; built filing-ready combined-rate logic, the Kotlin/GraphQL API, React grid, and rollout gates. The report served **1.16M requests from 122K companies in 90 days**.
- Owned **LLM observability and governance** for a production product-classification agent serving **45.5M requests/year** (Python/FastAPI); built Langfuse tracing, PII masking, cache-aware deduplication, and cost/token dashboards spanning 1.37M traces; registered the agent across test and production in GenOS.
- Built core components of **QuickBooks' transaction tax-data pipeline**, persisting data from a **12M+ calculations/day** service through PostgreSQL CDC/Kafka into centralized storage for reporting and filing; implemented schema/outbox changes, warehouse migrations, and lake ingestion. Cut **DynamoDB reads per Kafka event 67% (3 to 1)**.
- Designed **penny-level shadow reconciliation** against the legacy report, catching silent double counts and sales-total defects before launch; production checks measured **99.7% parity across 3.1M comparisons**.
- Co-designed **Sales Tax Clarity**; owned four of eight initial React/TypeScript components explaining invoice tax rates and categories. Shipped to **100% of US QuickBooks Online companies** with Playwright coverage and monitoring.
- Built **custom Claude Code skills**, multi-agent research workflows, persistent root-cause knowledge, and team-used on-call reporting; co-developed Claude/Intuit Intelligence test-data generation at **under 20 minutes/state, roughly 30x faster**.

University of Wisconsin-Madison

Sep 2023 - May 2024

Peer Mentor, CS 540: Introduction to Artificial Intelligence

Madison, WI

- Taught **machine learning, neural networks, backpropagation, and deep learning**; mentored students in natural language processing (NLP), reinforcement learning, probabilistic reasoning, and search.

Intuit

May 2023 - Aug 2023

Software Engineer Intern, Security and Fraud

Mountain View, CA

- Designed and built a Spring Boot/React service automating fraudulent-company review, reducing request turnaround from **7 days to 2 seconds**; used DynamoDB, Jenkins, and Argo CD.

Intuit

Jun 2022 - Sep 2022

Software Engineer Intern, Endpoint Engineering

Remote

- Designed and built a **Python/Django REST and React sentiment-analysis platform on AWS**; developed macOS endpoint health monitoring for security compliance using Bash and PowerShell.

Technical Skills

Languages: Python, Kotlin, Java, TypeScript, JavaScript, SQL, Bash, C++, Go, Rust

AI: Langfuse, GenOS, FAISS, Claude Code, Cursor; LLM observability, agent workflows

Backend: FastAPI, Spring Boot, Django REST Framework, Node.js, Express.js, GraphQL, REST APIs

Data / cloud: Kafka, DynamoDB, PostgreSQL, MongoDB, SQLite, AWS, CI/CD, Splunk

Frontend / testing: React, Next.js, HTML/CSS, Playwright, JUnit, Mockito, pytest

Education

University of Wisconsin-Madison

May 2024

B.S., Computer Science and Data Science; Economics with Mathematical Emphasis