

Namit Prakash Dadlani

Toronto, Canada | namitdadlani@gmail.com | [LinkedIn](#) | [GitHub](#) | [Medium](#) | [namitdadlani.com](#)

EXPERIENCE

Software Development Engineer | Amazon

Sep 2022 - Apr 2026

Toronto, ON

- Founding engineer on a 4-person team that built a **Host Provisioning Service** from scratch, adopted by 5 AWS services across 38 regions, supporting ~200K hosts at peak scale and eliminating the need for ~25 dedicated engineers across customer teams (~\$5–6M/year in avoided headcount)
- Architected and shipped a **synchronous capacity reservation system** using a 200ms latency tradeoff, cutting provisioning time ~80% and eliminating ~400 monthly EC2 Insufficient Capacity Exceptions
- Authored a cross-repository architecture knowledge base spanning 5 interconnected repos, grounding **AI coding assistants** in the system's actual data flow and eliminating context-loss errors in AI-generated code
- Owned end-to-end design and implementation of **customer-managed key (CMK) encryption** for hosted volumes, consulted with AWS KMS and security teams, and enabled customer teams to serve government and enterprise clients
- Designed and built CRUD APIs for compute, networking, and storage resources (EC2, EBS, VPC, ENI, etc.), architecting the **distributed, event-driven orchestration layer** (DynamoDB Streams, Step Functions, Lambda) that powers the service
- Built **EBS snapshot-based host restore** for 2 customer teams, refactoring volume configuration into a layered inheritance model to support SingleAZ and MultiAZ recovery during AZ-outage events
- Mentored **2 SDE interns** end-to-end across project scoping, feasibility review, code review; one intern's PoC directly validated the technical approach shipped in production

IT Developer Co-op | Canada Revenue Agency

May 2022 - Aug 2022

Halifax, NS

- Built backend modules and **REST APIs** for a bilingual (EN/FR) email notification system serving **1M+ taxpayers**, shipping production code within a first-time Angular stack
- Built full-stack features across a Java backend and Angular frontend, picking up **Angular independently** during the term and writing spec-based unit tests for frontend modules

Analyst (Software Engineer) | Deloitte Consulting

Oct 2018 - Mar 2021

Mumbai, IN

- Developed and maintained backend services in Java for the State of Louisiana's **Medicaid Eligibility Determination system**, serving **1.6M+ citizens**, implementing policy-driven updates and new features
- Diagnosed and resolved critical eligibility bugs in an **IBM ODM rules engine**, including incorrect household income calculations that were wrongly classifying low-income citizens as ineligible for free Medicaid coverage
- Optimized MySQL queries by reducing unnecessary column joins and adding indexes, cutting eligibility decision time by **17%**
- Developed and maintained Java batch jobs processing **~360K citizen records** annually across benefit updates, expiry-based terminations, and co-pay claims
- Built a **Selenium test suite** automating end-to-end sanity testing across 5 Medicaid program scenarios, reducing validation time from 80 minutes to 15 minutes per build cycle (**81% reduction**)

SKILLS

Languages: Java, Kotlin, TypeScript (Angular), Python

Cloud: AWS (EC2, EBS, VPC, Lambda, Step Functions, CloudWatch, CDK, KMS, IAM, S3)

Databases: MySQL, DynamoDB, Firebase

Tools: GitHub, CI/CD (GitHub Actions), Selenium, Postman, Maven, Gradle, JUnit, MockK

Concepts: System Design, Distributed Systems, Event-Driven Architecture, REST API Design, Unit & Integration Testing, Rules Engine (IBM ODM)

AI Tools: Claude Code, Codex, Cline, Cursor, Amazon Q (code generation); Claude, ChatGPT (architecture design)

EDUCATION

Master of Applied Computer Science | Dalhousie University

Aug 2022

Bachelor of Engineering - Computer Engineering | University of Mumbai

May 2018