

HARSH SANJAYKUMAR NAGORIYA

harshnagoriya@gmail.com — linkedin.com/in/harshnagoriya — [harshnagoriya.github.io](https://github.com/harshnagoriya)

Work Experience

Amazon, Seattle, WA

Software Development Engineer II

Dec 2023 – Present

- Architected a core experimentation framework for a multi-agent AI system, designing autonomous workflows that intelligently generate hypotheses and execute targeted content experiments; delivered highly scalable infrastructure as a primary technical building block to drive a leadership objective of acquiring 1M+ new Prime members.
- Led system design and development of the orchestration layer for a multi-agent AI experimentation platform scaling across 18+ marketplaces, solving complex automation bottlenecks to drastically accelerate global initiatives.
- Designed and implemented a localization preview service integrated with Figma, automating conversion of design mocks into marketing assets and providing real-time validation of localized content; reduced global launch timelines from 8 weeks to 1 week.
- Developed a distributed microservice to manage global rollout of Prime savings and benefits, automating audits and updates for 1,500+ marketing assets across 9+ marketplaces; reduced operational effort from 2 months to 1 day.
- Led design and implementation of Prime's first member-retention A/B testing framework, building orchestration logic across 5+ teams and delivering statistically significant results with a projected uplift of 11,000+ annualized Members.
- Owned end-to-end migration of an internal content management service from legacy NetScaler hardware to an AWS Application Load Balancer with zero downtime, eliminating critical security risks and enabling cloud-native scalability.
- Built a real-time, event-driven data pipeline using AWS Kinesis, migrating a critical service off a deprecated platform and ensuring 100% business continuity for experiment analysis dashboards.
- Drove key process improvements for the engineering team's sprint and operational excellence cadences, resulting in sustained 80%+ task completion rates and more efficient planning cycles.

Audere, Seattle, WA

Software Engineer

Aug 2022 – Dec 2023

- Built serverless API components using AWS API Gateway and Lambda functions, supporting 10K+ daily requests with 99.9% uptime across production environments.
- Developed 5+ REST endpoints with Python Lambda functions, handling data processing and API integration for 3 mobile applications.
- Contributed to Infrastructure as Code using Terraform, automating deployment of AWS resources across dev/staging/prod environments.
- Built automated database migration pipeline using Alembic, reducing schema deployment errors by 95% and saving 15+ hours of manual database management per week.
- Integrated automated testing workflows into CircleCI pipelines, improving code quality and reducing manual testing overhead by 60% across development cycles.
- Developed comprehensive Android test automation using Espresso framework, increasing test coverage from 45% to 70% and catching 85% of bugs before production deployment.

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C++, SQL, Bash

Database: MySQL, PostgreSQL, DynamoDB, RedShift

Technologies/Frameworks: AWS (Lambda, S3, EC2, DynamoDB, SNS, SQS), Spring Boot, Node.js, React, Hibernate, Flask, RESTful APIs, Microservices, Kubernetes, Docker

Developer Tools: Git, GitHub, GitLab, Jenkins, Terraform, AWS CDK, CloudFormation, Datadog, Splunk, IntelliJ

Testing & CI/CD: JUnit, TestNG, Mockito, Cypress, Selenium, Appium, CircleCI, AWS CodePipeline, Docker, Kubernetes

Education

Master of Science in Computer Science

3.94/4.0

Arizona State University, Tempe, AZ

Aug 2021 – May 2023

Relevant Coursework: Cloud Computing, Data Processing at Scale, Software Testing/Quality Management, Data Visualization

Bachelor of Technology in Information Technology

8.14/10

Dharmsinh Desai University, Nadiad, India

Aug 2017 – May 2021

Relevant Coursework: Data Structure and Algorithms, Databases, Advanced Java and Design Patterns, Distributed Computing