

Aatman Shah

<https://aatmanshah.github.io>

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EXPERIENCE

- **Smartsheet** Bellevue, WA
Software Engineer II - Platform May 2022 – Present
 - Played a key role in designing and launching a new decoupled service, leading the migration of public API traffic. Drove performance tuning, bug resolution, and stability improvements during rollout, ensuring a smooth transition for millions of customer requests.
 - Scaled a real-time data aggregation service to reliably process **10 - 12M requests/day** by migrating from EC2 to ECS Fargate, implementing a stateless S3-based cache, and provisioning infrastructure with Terraform/Terragrunt, cutting p99 latency by **19%**.
 - Built event-driven, serverless applications with AWS Lambda, SQS, and SNS to manage and update core service state, with an emphasis on fault tolerance and reliability.
 - Led initiatives to improve monitoring and alerting, reducing mean time-to-resolution (MTTR) for critical production incidents by over **30%** and enabling faster debugging during on-call rotations.
- **General Motors** Austin, TX
Software Engineer - Backend Mar 2020 - May 2022
 - Migrated a large monolith codebase into microservices, incorporating region-based switching logic and parallel processing to improve API response times by **3-5x** for services handling **1-3 million** monthly requests.
 - Designed, implemented, and deployed public API endpoints and delivered to client, enabling rapid information retrieval. Added new features such as integration with Apache Kafka to drop messages to a queue asynchronously. Deployed to GM's cloud servers using Pivotal Cloud Foundry.
 - Contributed to the effort to modernize the legacy Java platform by upgrading to a newer LTS version and refactoring dependencies, which reduced production memory usage while ensuring quality by increasing unit test coverage.
- **Nisum Technologies** Fremont, CA
Software Engineer - Intern Jun 2019 - Aug 2019
 - Wrote and maintained the backend of a scalable RESTful e-commerce service using Java and Spring Framework (Shopping Cart APIs)
 - Designed and created sample product and bag database with Microsoft Cosmos DB. Ensured unit testing coverage of at least 80%
 - Migrated service to Azure cloud, setting up Jenkins server on VM to push images automatically. Continuous Integration into Nisum private image repo and continuous deployment onto Azure cloud.
- **Beehive AI** Burlingame, CA
Software Engineering Intern Feb 2019 - May 2019
- **Intel** Folsom, CA
Firmware Validation Intern Jun 2016 - Aug 2016

EDUCATION

- **Santa Clara University** Santa Clara, CA
Bachelor of Science in Computer Science Sept. 2016 – Dec 2019

Relevant Coursework: Theory of Algorithms, Discrete Math, Object Oriented Programming, Data Structures, Linear Algebra, Data Science, Computer Networks, Logic Design, Embedded Systems, Software Design

TECHNICAL STRENGTHS

- **Languages:** Java, Kotlin, Python, TypeScript
- **Libraries & Frameworks:** Spring, Flask, JUnit, Numpy, SciKit-Learn
- **Cloud & Infrastructure:** AWS (ECS, EKS, Lambda, S3, SQS), Terraform, Terragrunt, Docker, GitLab CI/CD
- **Databases & Analytics:** DynamoDB, Snowflake, MySQL
- **Other:** Familiar with high-quality digital photography and editing (Adobe Lightroom, Photoshop)