

Rahul Shah

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SKILLS

Languages Java, C/C++, Go, Javascript/Typescript, Python
Frameworks Node.js, Express, React, Next.js, GraphQL, FastAPI, Springboot, gRPC
Database MongoDB, DynamoDB, MySQL, PostgreSQL, Oracle, Supabase.
Cloud & Tools AWS, Azure, Docker, Kubernetes, Git, Jenkins, Redis, Apache Kafka, RabbitMQ, Selenium.

WORK EXPERIENCE

Software Engineer Co-op

Solutions Unified LLC.

May 2024 - Present
New Jersey, United States

- Developed a high-performance **Go** microservice, integrating customer payments with Stripe reducing transaction processing time by **40%** and achieving **99.9%** uptime.
- Automated multi-service (Elastic Beanstalk, S3, DynamoDB) deployment using AWS CDK, reducing customer environment setup time by **75%** through seamless integration with CloudFormation.
- Developed a **REST API** in Go with **WebSocket** support, implementing advanced SQL queries, SSO, and **OAuth 2.0**, improving throughput by **30%** and reducing unauthorized access attempts by **75%**.
- Built a **kafka-based** notification service for support requests, implementing a batching system that reduced API requests by **30%** and ensured data consistency across the **Kafka queue** and **PostgreSQL** database

AI Full-Stack Developer

Enterprise Technology(Mastercard Foundation), Arizona State University.

January 2024 - January 2025
Arizona, United States

- Contributed to the development of **MLOps environments** and pipelines for **large language model** (LLM) applications, deploying **Kubernetes** clusters on AWS using **Docker** and **Terraform**.
- Developed three full-stack platforms serving over **10,000+** users to build, compare, and interact with various LLMs using **AWS Bedrock**, **OpenSearch**, and **Llamaindex** with audio and image support.
- Implemented a Jenkins **CI/CD** pipeline for 100+ weekly builds, using AWS services like **ECR**, **ECS** and **S3**.
- Optimized **Opensearch** database performance by refining schema designs and enhancing data ingestion processes, resulting in a **25%** improvement in query speed.

Software Engineer II (Full-Stack)

Allegion (Schlage).

June 2020 - July 2023
Bengaluru, India

- Led the optimization of database replication for multi-region full-stack deployments, utilizing **DynamoDB** and **Redis**, enhancing data consistency, caching and availability by **20%** in distributed environments.
- Deployed **Lambda functions** to process **2M+** records, increasing speed by **60%** through storage in **Clickhouse**.
- Drove the migration of Engage web application to a microservices architecture with **Docker** and **Kubernetes**, enhancing system scalability to support **100,000+** concurrent connections, reducing latency by **25%**.
- Engineered a full-stack web application utilizing **React.js**, **Node.js**, **PostgreSQL** and **S3**, enabling the software team to centralize document storage and transition to online documentation.
- Developed an **Automation** Framework with **Selenium** and **Appium**, reducing manual testing efforts by **70%**.

PROJECTS

InfoFetchBot. ([link](#)) *Python | Discord API | Open AI | AutoGen | NotionAPI*

September 2024 - October 2024

- Built a Discord bot that processes incoming messages to trigger web searches and scrape website content using AI agents, delivering concise summaries directly into Notion for streamlined data organization and retrieval.

AutoDeploy. ([link](#)) *Node.js | S3 | ECR | ECS | Redis | Web Sockets*

January 2024 - February 2024

- Developed a backend application to automate React project builds from GitHub URLs using ECS build servers, deploying static files to S3 and generating custom URLs with a reverse proxy for efficient serving.

LiveCode Collaborator. ([link](#)) *Web Sockets | React | Node.js | MongoDB | Express*

July 2022 - September 2022

- Created an online JavaScript coding IDE with real-time collaboration features using WebSockets and WebRTC, allowing users to develop and execute code in shared coding rooms.

EDUCATION

Arizona State University

Master of Science in Computer Science; GPA: 4.0/4.0

Tempe, AZ

May 2025