Rahul Shah

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Education

Arizona State University — Tempe, AZ
Master of Science in Computer Science; ***GPA: 3.8/4.0*** — *May 2025*

S.D.M. College of Engineering and Technology — Karnataka, India
Bachelor of Science in Electronics and Communication; ***CGPA: 9.56/10.0*** *(top 1%, Class of 2020)* — *June 2020*

Skills

Languages : JavaScript(ES5/ES6), Python, TypeScript, C, C#, .NET, HTML, CSS, JSON.
Frameworks : Node.js, Redux, React.js, React Native, Next.js, Pytorch, Langchain, Tensorflow, Scikit-learn.
Database : MongoDB, DynamoDB, MySQL, PostgreSQL, Milvus, Supabase.
Tools : Postman, AWS, Git, Jenkins, Redis, Selenium, Docker, Appium, Confluence, Jira, Kubernetes.
Proficiencies : SDLC, STLC, SCRUM, Agile, Frontend, Backend, Unit testing, Automation, Micro-services, CI/CD, DevOps.
Soft Skills : Communication (verbal and written), Leadership, Collaboration, Mentorship.

Work Experience

Enterprise Technology, Arizona State University, Tempe. — Arizona, United States
AI Full-Stack Software Developer — *January 2024 - Present*

- Working as an **MLOps** engineer, responsible for developing environments and ML pipelines for various LLM applications by provisioning **Kubernetes** cluster on **AWS** using **Docker** and **Terraform**.
- Building a cutting-edge AI/ML platform and custom **LLM applications** for ASU faculty and staff as part of the AI Acceleration team using **React.js**, **DynamoDB** and **AWS Lambda** .
- Enhanced **Milvus vector database** performance through optimization of schemas, triggers, and dynamic queries. Implemented efficient data ingestion using diverse chunking and scraping strategies for optimal database functionality.

Allegion. — Bengaluru, India
Software Engineer II (Full-Stack) — *March 2022 - July 2023*

- Enhanced communication efficiency between IoT devices and the Engage mobile application by implementing **RESTful APIs** as part of backend development, resulting in seamless management of **100,000+** users.
- Incorporated **Redux** state management into the frontend development of the Engage mobile application, resulting in a remarkable **80ms** reduction in response times and a significant 20% improvement in the overall app's responsiveness.
- Set up a Jenkins **CI/CD** pipeline that automated **100+** weekly builds, while utilizing **AWS** services like **ECR**, **ECS**, **S3**, and **AWS Fargate** for seamless DevOps
- Engineered a robust **Automation Framework** using **Python**, **Selenium**, and **Appium** to automate testing for web and mobile apps, resulting in a **70%** reduction in manual efforts.

Software Engineer I — *June 2020 - March 2022*

- Played a pivotal role in integrating access code options into both the front-end and back-end of the Engage mobile application, achieving a remarkable **35%** increase in user adoption and significantly enhancing security.
- Engineered and deployed a **Python** and React-based **Card-Simulator tool** with VirtualBench integration, replicating various card scenarios and eliminating the need for over 30 physical card types.
- Accomplished advanced **geolocation-based** features within Engage mobile application, allowing users to control access remotely. This feature contributed to a **80%** increase in remote access usage and client satisfaction.

Software Engineer Intern — *January 2020 - June 2020*

- Led the development and deployment of a full-stack web application utilizing **React.js**, **Node.js** and **AWS S3**, enabling the software team to centralize document storage and transition to online documentation.
- Developed a front-end application for Azure DevOps Data Mining using **React.js**, seamlessly integrating **Azure APIs**, and streamlining data extraction, ultimately reducing manual scraping by **40%**.
- Conducted comprehensive python code reviews, testing, **API documentation**, and implemented code refactoring techniques, leading to a remarkable 15% reduction in codebase errors and improved code maintainability.

Projects

FigPro. **(link)** *Next.js |Liveblocks |Fabric.js |Tailwind |* — *January 2023 - March 2023*

- Developed a Figma clone with support for live collaboration, multi-cursors, reactions, and comments using fabric.js. It supports active user tracking, comment bubbles, shape creation, image uploading, and freeform drawing.

CoDev Space. **(link)** *Web Sockets |React |Redux |Node.js |MongoDB |Express* — *July 2022 - September 2022*

- Crafted an collaborative online Python coding IDE using React and Web Sockets enabling real-time code development and execution, featuring live collaboration through shared coding rooms, fostering seamless teamwork among users.

Route Tracker. **(link)** *React Native |Node.js |MongoDB |Express* — *June 2021- September 2021*

- Developed a React Native mobile app harnessing GPS capabilities to track and record routes, storing them in MongoDB for review, distance tracking, and implementing comprehensive user authentication.