Dishank Oza

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EDUCATION

Santa Clara University   Santa Clara, USA
Master of Science in Computer Science and Engineering   *Sept 2024 - June 2026 (Expected)*
- ○ Relevant coursework**:** Object Oriented Analysis, Design and Programming, Database Systems.

University of Mumbai   Mumbai, India
Bachelor of Engineering in Computer Engineering   *Aug 2017 - June 2021*
- ○ Relevant coursework**:** Data Structures, Advanced Algorithms, Distributed Computing, Machine Learning.

EXPERIENCE

Frugal Innovation Hub @ SCU   Santa Clara, USA
Software Engineer   *Oct 2024 - Present*
- ○ Developed a document upload and retrieval system with **MongoDB GridFS and Next.js** APIs for the university project management dashboard, reducing load times by **30%** through optimized data handling and efficient file streaming.

Freespace   Mumbai, India
Senior Software Engineer   *May 2023 - July 2024*
- ○ Led a team of **4 in agile development**, owning the end-to-end architecture, development, and release of product features; **awarded Freespace Captain** for exceptional leadership, problem-solving, and timely delivery.
- ○ Developed a bot that optimized amenity booking event processing using **AWS DMS CDC** for continuous data replication, along with **Kinesis and EventBridge**, achieving a **3000%** increase in event distribution efficiency and better resource utilization.
- ○ Optimized API transaction handling by replacing serialized locks with **Redis distributed locks** in a **Spring Boo**t application, reducing database load and improving concurrency, resulting in a **57%** performance boost during peak times.
- ○ Migrated amenity booking APIs to an **event-driven architecture** with **AWS SQS FIFO and Lambdas**, converting synchronous bookings to asynchronous processing, reducing deadlocks and server costs by **25%**.

Freespace   Mumbai, India
Software Engineer   *June 2021 - May 2023*
- ○ Contributed to and maintained a custom frontend component library using **React, TypeScript, and Storybook**, implementing tailored branding styles for clients and enhancing UI consistency and development efficiency.
- ○ Led migration to SPA with **React routing**, route-based and custom **Webpack code splitting, HOCs**, doubling first-load speed and improving repeat visits by **400%.**
- ○ Built a **serverless** notification system using **AWS Lambda, SQS, SNS, and SES** for scalability, with multi-channel support (email, push, SMS) and a **CloudFormation stack** for automated infrastructure provisioning.
- ○ Developed and maintained RESTful APIs using **Spring Boot and GraphQL** for an enterprise application serving **100,000+** users across **30+** global clients, managing up to **5,000** concurrent requests per minute.

PROGRAMMING SKILLS

Certifications: AWS Developer Associate, Scrum Alliance-Scrum Foundations, Discovering Backend Bottlenecks
Full-Stack: HTML/CSS, Tailwind, Nextjs, Spring Boot, GraphQL, React, NodeJS
Database and Cloud: MySQL, PostgreSQL, MongoDB, Neo4j, Redis, AWS(CloudFormation,Lambda, S3, API Gateway, Route 53, IAM)
Programming Languages and Tools: Java, JavaScript, TypeScript, Python, SQL, Docker, Kubernetes/EKS, Jenkins, Git, Linux

PROJECTS

- ○ **Hand Tracking & Gesture Recognition**: Developed hand gesture-based input modes, using MediaPipe framework, allow for distance interaction with programs, offering accessibility benefits by translating sign language into captions and enhancing communication.[Springer Publication link]
- ○ **Medicine Reminder Application:** Developed a medication management app facilitating storing, scheduling pill information and generating alarms and personalized call-based reminders.

ACHIEVEMENTS, AWARDS, AND LEADERSHIP

- ○ **Awarded Freespace Captain** for successfully leading the team, utilizing exceptional problem-solving skills, and ensuring timely delivery of project deliverables
- ○ **2nd in Asia** in international SAE Aero Design East Competition (U.S.A) 2020
- ○ **3rd** in **Smart India Hackathon** qualifier 2020 for license plate recognition and automated parking system using Raspberry Pi.
- ○ **1st in Technical Paper Presentation**, Crescendo 2021 held in Fr. Conceicao Rodrigues College of Engineering.