

# Dishank Oza

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## EDUCATION

### Master of Science, Computer Science and Engineering

*Expected 2026*

**Santa Clara University** – Santa Clara, CA | Relevant course-work: Distributed Computing, AI

### Bachelor of Engineering, Computer Engineering

*June 2021*

**University of Mumbai** – Mumbai, India | Relevant course-work: Applied Mathematics, Advanced Algorithms, ML

## SKILLS

**Certifications:** AWS Developer Associate, Scrum Alliance-Scrum Foundations, Discovering Backend Bottlenecks

**Full-Stack:** HTML/CSS, Tailwind, Nextjs, Spring Boot, GraphQL, React, Node, Flask, Docker, Kubernetes

**Database and Cloud:** MySQL, PostgreSQL, MongoDB, Neo4j, Redis, AWS, CloudFormation, Lambda, S3, IAM, Terraform, Ansible

**Programming Languages:** Python, Java, JavaScript, TypeScript, Bash, C/C++

## EXPERIENCE

### Freespace | Senior Software Engineer

**Mumbai, MH, India | May 2023 - July 2024**

- Built a backend framework using AWS Lambda as a batch worker, along with SQS, Step Functions, AWS DMS, and AWS Kinesis, achieving a **3000%** reduction in the number of events
- Streamlined infrastructure-level API transaction issues by implementing Redis distributed locks and transitioning to an event-driven system, resulting in a **57%** improvement in system performance and user experience.
- Led the initial phase of refactoring the Freespace monolithic backend service into microservices, applying industry best practices for Spring Boot
- Enhanced system performance by **30%** through the integration of Progressive Web App (PWA) features and caching GraphQL APIs
- Led a team of 6 people and actively participated in agile development methodologies, including Scrum, to ensure efficient project management and on-time delivery of features.

### Freespace | Software Engineer

**Mumbai, MH, India | June 2021 - May 2023**

- Designed and developed a custom notification system for the Freespace app, leveraging AWS Lambda, SQS, SNS, SES, and the Serverless Framework to automate delivery, enhance user engagement, and architect the entire system, including event handling, content preparation, and delivery.
- Developed and maintained RESTful APIs using Spring Boot and GraphQL for an enterprise-level application, serving over **100,000** users across **35+** global clients
- Developed and maintained a custom frontend component package using React, TypeScript, and Storybook.
- Oversaw the migration of the website from a traditional multipage architecture to a modern Single Page Application (SPA) model, architecture, resulting in a **100%** improvement in first-load performance and a **400%** improvement in consecutive visits.

## PUBLICATIONS

### Real-Time Hand Tracking and Gesture Recognizing Communication System | [Springer Publication link](#)

*Jan. 2022*

- Hand gesture-based input modes, using frameworks like MediaPipe, allow for distance interaction with programs, offering accessibility benefits by translating sign language into captions and enhancing communication.

## PROJECTS

### Medicine Reminder Application

*2021*

- Created a medication management app with pill information storage, alarms, and personalized call-based reminders
- Implemented a usage history log to assist users in tracking medication intake

### Event Management Application

*2020*

- Developed an award-winning event management app for Euphoria Fest, winning the Synergy Hackathon
- Enabled efficient event scheduling, participant registration, activity tracking, and organizer-participant communication

## ACHIEVEMENTS, AWARDS, AND LEADERSHIP

- Awarded as 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.