Dishank Oza

(669) 281-9480 | San Francisco, CA | dishankwork@gmail.com | LinkedIn | dishankoza.github.io | Blogs

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/EKS
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 (3 years)

Freespace | Senior Software Engineer (1 Yr) Mumbai, MH, India | *May 2023 - July 2024*
- Led a team of 6 in agile development, following Scrum methodologies for efficient project management and timely feature delivery.
- Designed and developed a backend application using AWS Lambda, integrated with SQS, Step Functions, AWS DMS, and AWS Kinesis, achieving a **3000%** improvement in event distribution and better system resource utilization.
- Re-designed API transaction handling by implementing Redis distributed locks and transitioning to an event-driven architecture, leading to a **57%** boost in system performance and better concurrency.
- Led the initial phase of refactoring the Freespace monolithic backend service into microservices, applying industry best practices for Spring Boot resulting in better maintainability and increase in time to market.
- Enhanced system performance by **30%** through the integration of Progressive Web App (PWA) features and caching GraphQL APIs

Freespace | Software Engineer (2 Yrs) Mumbai, MH, India | *June 2021 - May 2023*
- Built and maintained a custom frontend component library using React, TypeScript, and Storybook. .
- Oversaw and support migration of a website from a traditional multipage architecture to a modern Single Page Application (SPA) architecture, resulting in a **100%** improvement in first-load performance and a **400%** improvement in consecutive visits.
- Architected, designed and implemented a custom serverless notification system using AWS Lambda, SQS, SNS, SES which help reduced cost and maintenance, streamlined notification delivery and improvement in user engagement
- Developed and maintained RESTful APIs using Spring Boot and GraphQL for an enterprise application serving **100,000+** users across **35+** global clients, managing up to **5,000** concurrent requests per minute.

PUBLICATIONS

Real-Time Hand Tracking and Gesture Recognizing Communication System | Springer Publication link *Jan. 2022*
- Developed 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*
- Developed a medication management app facilitating storing, scheduling pill information and generating 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 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.