

MIHIKA DAKAPPAGARI

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EDUCATION

University of Southern California, Viterbi School of Engineering
Masters in Science in Computer Science

Los Angeles, CA
August 2024 - May 2026

Relevant Coursework: Analysis of Algorithms, Web Technologies,
Advanced Natural Language Processing, Database Systems

K.J Somaiya College of Engineering
Bachelors in Technology in Computer Engineering
CGPA: 9.21/10

Mumbai, India
July 2020 - May 2024

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, Swift
Web: React.js, Node.js, Express, MongoDB, HTML/CSS, Bootstrap, REST APIs, WebRTC
Tools: Git/GitHub, Postman, VSCode, XAMPP, Docker, FFmpeg
Other: JWT Auth, Socket.io, MySQL, MongoDB Atlas, WebSocket, Real-time Systems

EXPERIENCE

Galaxy Office Automation Pvt Ltd
Technical Intern

Mumbai, India
June 2023 - August 2023

- Developed REST APIs with PHP and MySQL, running in a Linux VM for internal tools
- Implemented JWT authentication and tested endpoints using Postman
- Independently researched and implemented security features to improve internal API access controls
- Collaborated with database administrators to test and optimize PostgreSQL queries for performance

K.J Somaiya College of Engineering
Mobile App Intern

Mumbai, India
February 2023 - April 2023

- Built a survey app in Flutter/Dart for collecting accessibility data across Mumbai railway stations
- Enabled image uploads and search functionality to help users assess station accessibility
- Took initiative to conduct informal user interviews to tailor app features toward real commuter needs

ACADEMIC PROJECTS

LiveCollab - Real-Time Collaboration Platform | React, TypeScript, Node.js, WebRTC, MySQL

- Developed full-stack platform supporting 100+ concurrent users with video conferencing, live chat, and analytics
- Implemented WebRTC P2P video streaming with screen sharing and real-time Socket.io messaging (<100ms latency)
- Built secure role-based access control (Owner/Moderator/Member) with JWT auth and bcrypt password protection
- Created real-time analytics dashboard with Chart.js tracking 15+ metrics and data export functionality
- Architected scalable MySQL schema with optimized indexing, reducing query time by 60%

Real-Time Chat Application | MERN Stack, Socket.io, MongoDB

- Built and deployed a secure, real-time chat platform with group chat, user authentication, and profile features
- Integrated Socket.io for live messaging with typing indicators and notification handling
- Proactively optimized socket logic to reduce latency in group conversations by ~30%
- Collaborated with peers for feature planning and conducted code reviews during development

Personalized e-Learning System | Django, React, ML

- Predicted user learning styles using K-means clustering and adapted quiz flow using reinforcement learning
- Led a 3-member team to coordinate system design, machine learning model integration, and backend deployment
- Scraped open educational resources based on model output to personalize content delivery

LEADERSHIP AND INVOLVEMENT

Hackathon Participant – Edelweiss Group, 2023, Mumbai, India

- Worked in a cross-functional team under time pressure to develop a fintech app prototype
- Contributed backend logic and helped synthesize ideas across team roles

Event Head – Badminton – SKREAM Sports Festival, 2022, Mumbai, India

- Led planning, logistics, and execution of the badminton event at one of India's largest collegiate sports fests
- Managed a team of 15 volunteers and coordinated with 100+ participants, ensuring a smooth and timely event schedule