

# Ekta Mulkalwar

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## EDUCATION

### Master of Science, Computer Science

California State University, Los Angeles | Los Angeles, CA  
4 GPA

Jan 2024-Dec 2025

### Bachelor of Technology, Information Technology

Vishwakarma Institute of Information Technology | Pune, India  
3.93 GPA

Aug 2019-May 2023

## PROJECTS

### Meal Planner Application

Aug 2024 - Oct 2024

- Build a full-stack app using **Node.JS**, **Express.JS**, **MongoDB**, and **Svelte.JS**.
- Integrated Spoonacular API for meal search and personalized meal plans.
- Implemented **RESTful** routes, **JWT** authentication, and a user-friendly interface.

### Landmark IOS Mobile Application

May 2024 - June 2024

- Developed an iOS application to showcase various landmarks using SwiftUI for the frontend and Django for the backend.

### Fashion and Apparel Classification (ML Research Project)

Jan 2022 - May 2022

- Built a deep learning model using **Python** and **FastAPI**, achieving 85% accuracy in image classification. Published research with the Copyright Office India.

### Music Learning Platform (MERN Stack)

Oct 2022 - Dec 2022

- Developed a full-stack web application using **MongoDB**, **Express**, **React**, and **Node.JS (MERN stack)** to facilitate music learning and teaching for a community group.
- Implemented user authentication, course management, and interactive lessons to enhance the learning experience.
- Focused on creating a responsive and user-friendly interface, enabling seamless collaboration between instructors and students.

## PUBLICATIONS

### Decentralised Certificate Verification Application via Blockchain- A Review

Aug 2022 - Dec 2022

- A research paper is published in the Grenze International Journal of Engineering and Technology, January 2023 Issue.

## EXPERIENCE

### Graduate Research Assistant - Tsunami Evacuation Web Application (Ongoing)

April 2024 - Present

California State University, Los Angeles | Los Angeles, CA

- Developed the API backend using **Node.JS** to manage real-time data for optimizing evacuation routes during tsunami emergencies.
- Integrated **Google Maps API** and **TomTom API** to provide dynamic, data-driven route suggestions and manage crowd density.
- Collaborated with a team to predict vehicle speeds through dataset transformation and machine learning, improving traffic flow predictions.

### Teaching Associate

Aug 2024 - Present

California State University, Los Angeles | Los Angeles, CA

- Instructed lab sessions on **Java programming** and core concepts, assisting students in writing and debugging code.
- Developed and conducted activities on **socially responsible computing**, promoting ethical and inclusive software development.
- Provided one-on-one support to students, fostering a strong foundation in programming logic and problem-solving.

### UI UX Designing Intern

Mar 2023 - July 2023

Cling MultiSolution Pvt. Ltd | Pune, India

- Designing a range of websites including mobile applications using **Figma**.
- Assisted in frontend development using **React.JS** for several projects.

## SKILLS

- Programming Languages: C++, Python, Javascript, Kotlin, Swift, Java
- Frontend Development: ReactJS, Figma, Svelte.Js
- Backend Development: NodeJS, Django
- Database Technologies: Power BI, Microsoft Powerpoint, Excel

## CERTIFICATION

- Programming for Everybody (Getting Started with Python)
- Programming Fundamentals (Coursera Certificate by the Duke University)
- Support Vector Machine (Infosys springboard)