

VIRAJ VAGHASIA

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Education

University of Southern California, Los Angeles, CA

Aug 2025 – May 2027

Master of Science in Computer Science

Dwarkadas J. Sanghvi College of Engineering, Mumbai, India

Aug 2018 – May 2022

Bachelor of Engineering, Information Technology

GPA: 9.38/10

Technical Skills

Frontend: React, Next.js, Vue.js, Redux, Zustand, Tailwind CSS, Material-UI (MUI), Ag-Grid, Chart Libraries

Backend: Python, FastAPI, Django, Flask, Node.js

Programming Languages: JavaScript, TypeScript, C++

Databases: MySQL, OracleDB, MongoDB

Tools & Software: Bitbucket, Git, Postman, Jenkins, ClickUp, Microsoft 365

Experience

Senior Software Engineer, Decimal Point Analytics, Mumbai, India

Jul 2022 – Jul 2025

- Built a real-time financial index platform improving data visualization speed by 45% and boosting user engagement through dynamic multi-index tracking (React, FastAPI, Recharts).
- Developed a quality control system with maker-checker process increasing data accuracy by 60% and shortening review cycle time by 40% (Django, DataTables).
- Led frontend development of a Loan Management System automating transaction workflows and saving analysts 15+ hours/month (Vue.js, ApexCharts).
- Implemented a dynamic ESG questionnaire portal with drag-and-drop interface and role-based workflows cutting onboarding time by 30% (Next.js, FastAPI).
- Designed intuitive frontend interfaces for a fund data collection tool using React, accelerating onboarding process by 25% by streamlining data entry and validation workflows.
- Engineered a matchmaking platform connecting ophthalmic startups with investors saving over 20 hours/month of manual outreach (React, MySQL).
- Built a Django-based news aggregation portal with admin-rated articles and user commenting leveraging Django signals for event-driven workflows.
- Optimized legacy codebases by refactoring modules and improving queries, boosting performance by 30%, lowering bug backlog by 40%, and increasing sprint efficiency by 25%.
- Collaborated in cross-functional agile teams to improve CI/CD pipelines, decreasing production incidents by 20% and improving deployment reliability.

Projects and Publications

Dance With AI – Interactive Dance Learning Platform

Apr 2022

- Developed a web platform using Flask and MongoDB to teach dance to children with real-time video-to-video pose matching (BlazePose, OpenPose).
- Designed gamified feedback and leaderboard features using React, enhancing engagement and learning outcomes.
- Published paper in *International Research Journal of Engineering and Technology (IRJET)*, Vol 09, Issue 04.

Review of Literature on Human Pose Estimation and Pose Comparison Techniques

Oct 2021

- Conducted a comprehensive literature survey on pose estimation methods relevant to sports analytics.
- Published in *International Journal of Creative Research Thoughts (IJCRT)*, Vol 09, Issue 10.

Fab Fashion – E-Commerce Platform

Aug 2020

- Programmed backend using Flask and integrated Razorpay API for secure payment processing.
- Implemented product browsing, order management, and transaction workflows.

Leadership & Volunteering

- Mentored juniors in Vue.js and Flask at Decimal Point Analytics providing hands-on training and code reviews (2024).
- Volunteered for beach cleanup at Juhu Beach with Indian Development Foundation (2022).