

# 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, Context API, Jest

**Backend:** Python (FastAPI, Django, Flask), Node.js (Express, NestJS), REST APIs, Microservices

**Programming Languages:** JavaScript, Python, TypeScript, C++

**Databases:** MySQL, OracleDB, MongoDB, PostgreSQL, Redis

**Tools & Software:** Git, Bitbucket, Jenkins, GitHub Actions, Postman, ClickUp, Docker, Kubernetes, AWS, Azure, Microsoft 365

## Experience

Senior Software Engineer, Decimal Point Analytics, Mumbai, India

Jul 2022 – Jul 2025

- Developed a **financial index platform** for **custom multi-index tracking**, enabling users to dynamically add or remove indices with instant chart updates (React, FastAPI, Recharts).
- Implemented 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).
- Engineered a **dynamic ESG questionnaire portal** with drag-and-drop interface and role-based workflows cutting onboarding time by **30%** (Next, FastAPI).
- Designed intuitive frontend interfaces for a **fund data collection tool**, accelerating onboarding process by **25%** by streamlining data entry and validation workflows.
- Created a **matchmaking platform** connecting ophthalmic startups with investors saving over **20 hours/month** of manual outreach (React, MySQL).
- Implemented a **predictive maintenance portal** analyzing machine data to forecast potential faults and recommend timely maintenance, reducing downtime risk and improving operational efficiency (Next, FastAPI, MySQL).
- 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.

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.