

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.	
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.	