

PRATIK FANDADE

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Education

University at Buffalo - SUNY

MS in Computer Science and Engineering

Aug 2024 – Dec 2025 (Expected)

Vishwakarma Institute of Technology, Pune

B.Tech in Information Technology

Aug 2018 – Aug 2022

Technical Skills

- **Programming Language:** C, C++, C#, Python, HTML, CSS, JavaScript, TypeScript, Go, Rust
- **Web/Frameworks:** React.js, Node.js, Webpack, Babel, NPM, Yarn, Spring Boot
- **Cloud/DevOps:** Amazon Web Services (AWS), GCP, Docker, Kubernetes, GitHub Actions, REST APIs, RabbitMQ
- **Databases:** PostgreSQL, MySQL, SQL, Mongo DB, Redis
- **Tools:** Git (Version Control), GitHub Actions, Jenkins, Linux, Cypress, Appium, Selenium, JEST, Maven, Bash
- **Concepts:** Distributed System, Object-Oriented Programming, Functional Programming, Web Application

Experience

Colgate Palmolive

Feb 2022 – Aug 2024

Software Engineer | Full Stack Web Development

Aug 2023 – Aug 2024

- Built scalable REST APIs for Application Product with .NET, MSSQL, Angular, AWS, and Docker, enabling support for 1M+ consumer requests across global platforms.
- Redesigned cross-functional collaboration inventory modules and streamlined business logic, reducing processing time by 50% and improving SLA compliance.
- Collaborated in a 16-member Agile team using Jira; led feature delivery in two cross-functional sprints and mentored new developers on API standards.

Junior Software Engineer | Full Stack Web Development

Aug 2022 – Aug 2023

- Refactored Responsive Design of Front-End using React, Redux, TypeScript, and MUI; improved component reusability, security and boosted performance by 70%.
- Resolved 100+ bug status issues via test-driven development, testing, debugging and code reviews; contributed to architectural design improvements across microservices.
- Promoted for software architecture innovative contributions and growth in technical expertise; recognized for excellence in performance, communication skills and collaborate with team members.

Software Engineering Intern | Full Stack Web Development

Feb 2022 – Aug 2022

- Developed dashboard solutions for internal global support tools; automated deployment workflows saving 50% of repetitive query data entry time.
- Led Continuous Integration pipeline optimization for Software Development Life Cycle using GitHub Actions and Cypress; cut build time by 60% and increased test coverage across services.
- Delivered 50+ PRs with clean code, detailed written documentation and test coverage; recognized among top-10 contributors company-wide for the release.

Projects

Stock Market Trend Prediction

Aug 2021 – Jan 2022

- Built LSTM model with sentiment analysis to predict stock trends with 91.9% accuracy, resulting in a paper publication in a Conference.
- Implemented Back-End via Flask + MongoDB + Yahoo Finance API utilizing continuous learning architecture; designed responsive frontend and enabled concurrent requests.

Distributed File Storage System (RaftFS)

Mar 2025 – Present

- Developed a fault-tolerant distributed storage system using Raft for consensus, enabling consistent metadata management and leader-based replication across nodes.
- Implemented gRPC to communicate node coordination and client requests, supporting chunked file uploads, sharding, and parallel replication.
- Designed and tested failure recovery mechanisms and node membership in a containerized Docker cluster, achieving over 99.9% availability during simulated node crashes.