

# PRATIK FANDADE

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## EDUCATION

### University at Buffalo - SUNY

MS in Computer Science and Engineering

Aug 2024 – Dec 2025

Graduating Dec 2025

### Vishwakarma Institute of Technology, Pune

B.Tech in Information Technology

Aug 2018 – Aug 2022

CGPA: 8.71/10

## TECHNICAL SKILLS

**Languages:** Python, C++, C#, JavaScript, Java, Go, Rust, Bash | **Databases:** PostGreSQL, MySQL, MongoDB  
**Technologies/Frameworks:** Linux, GitHub, ReactJS, NextJS, NodeJS, Flutter, Git  
**Cloud:** AWS, GCP, DevOps, Microservices, Docker, Kubernetes, RabbitMQ, GitHub CI/CD, Distributed Systems  
**Relevant coursework:** Operating Systems, Network Security, Database Management System (DBMS), Artificial Intelligence & Machine Learning (AI/ML), Object Oriented Programming, Web Development, Android Development

## EXPERIENCE

### Colgate Palmolive 🔗

Senior Technology Associate

Feb 2022 – Aug 2024

Aug 2023 – Aug 2024

- Collaborated with 16 developers to build and maintain proprietary software, leveraging **Django, React, GCP, Kubernetes, Docker, and Celery** to build APIs supporting over 1 million concurrent I/Os with low latency.
- Aided a team as a Developers to design & develop a software solution for strategic market performance procedure to achieve 50% time savings & better efficacy.
- Supervised software with a team of 15 employees which provided services to 10,000+ businesses to identify & improve the system for better sales of 100,000+ industry-leading products.
- Actively engaged with Developers to improve front-end architecture, and reduce technical overhead of the project by 30%.

Campus Associate

Aug 2022 – Aug 2023

- Contributed with developers on improving the front end using libraries like **Ag-grid, ant-design.js, and MUI-X** to enhance data visualization solutions, causing reduced performance overhead by 70%.
- Resolved over 100+ bugs, ensuring optimized system performance and accuracy leading to better handling of critical business tasks.
- Led testing initiatives and enhancements **GitHub Actions**, to improve teamwork across global teams, which lifted build times by 60%.

Intern

Feb 2022 – Aug 2022

- Cooperated alongside 6 Full-Stack developers to develop & maintain industry-grade software used in 100+ countries.
- Successfully developed a feature to manage & process 1000s of data points within second.
- Spearheaded contributions to a global software project, ranking as a top-10 contributor with over 50 commits and managing intricate additions and deletions that made overall code quality better for international users.

## PROJECTS

### Stock Market Trend Prediction 🔗 | RNN, TensorFlow, Keras, Python

Aug 2021 - Jan 2022

- Designed and developed a model using the **LSTM RNN** algorithm for stock price prediction, achieving an accuracy of 91.96% by incorporating Twitter sentiment analysis to assess public opinion on stock movements.
- Integrated live data feed from Yahoo Finance API into the deployed model, achieving a notable improvement in prediction speed by 10 seconds per transaction and ensuring continuous updates to training datasets.

### Real Time Chat Web Application 🔗 | React, NodeJS, Express, MongoDB

Aug 2020 - Jan 2021

- Worked along with a team of developers to design and build a secure, real-time chat application using AES-256 **cryptography** algorithm for data **encryption**.
- Conducted an extensive literature review of cryptography encryption algorithms to identify best practices for secure communication.
- Engineered login services with a focus on access control and user authentication protocols

## PUBLICATION/ACHIEVEMENTS

- Collaborated with diverse contributors on the *Diesel* 🔗 GitHub project focusing on maintaining high standards of **Rust** programming which improved user experiences among over 10,000 active installations worldwide.
- Ranked **top 26%** in the world on *leetcode.com* 🔗 solving more than **400+ DSA problems** on *leetcode, GeeksforGeeks, CodeChef & CodeForces*
- Published a paper - *Stock Market Trend Prediction Along With Twitter Sentiment Analysis* 🔗 which does experimentation on **LSTM RNN** to best suit the use case of stock market prediction and combined with methods of **Twitter Sentiment Analysis** for better output accuracy of 91.96%.
- Published a paper - *Real Time Chat Web Application having E2E Encryption* 🔗 which follows the progress of **cryptography** in last 10 years and compared methods of **Encryption**.