

# PRATIK FANDADE

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## EDUCATION

University at Buffalo - SUNY  
Master of Science in Computer Science and Engineering

Aug 2024 – Dec 2025  
Expected Dec 2025

Vishwakarma Institute of Technology, Pune  
Bachelor of Technology in Information Technology

Aug 2018 – Aug 2022  
GPA: 3.7

## TECHNICAL SKILLS

**Languages:** Python, C++, C#, JavaScript, Java, Ruby, 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, Distributed Applications  
**Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Cyber Security, Database Management System (DBMS), Artificial Intelligence & Machine Learning (AI/ML), Object Oriented Programming, Android Development

## EXPERIENCE

Colgate Palmolive [↗](#)

Feb 2022 – Aug 2024

Software Engineer

- Collaborated with **16 developers** to build and maintain proprietary software using **Agile** methodologies, supporting global inventory planning for **10,000+ businesses**.
- Developed APIs using **Django, React, GCP, Kubernetes, RabbitMQ, Docker**, and **Celery**, supporting over **1 million concurrent I/Os** with low latency.
- Improved the design and development of software solutions for Strategic Business Logic, achieving **50% time savings** and increased efficiency.
- Optimized front-end architecture, reducing technical overhead in a global market data planning solution by **30%**.

Junior Software Engineer

Aug 2022 – Aug 2023

- Refactored front-end **architecture** using libraries like **Ag-grid, Ant Design, React.js**, and **MUI-X**, enhancing data visualization and reducing performance overhead by **70%**.
- Resolved over **100+ bugs and feature requests** through **test-driven development (TDD)**, improving system performance and reliability for critical business tasks.
- Led testing initiatives and implemented **Unit-tests, Integration-tests**, and enhancements with **GitHub Actions, JEST**, and **Cypress**, improving collaboration across global teams and reducing build times by **60%**.

Software Engineering Intern

Feb 2022 – Aug 2022

- Collaborated with **6 full-stack developers** to develop and maintain industry-grade software used in **100+ countries**.
- Authored a feature to process and validate **1000s of data points** within seconds using **validation pipelines**, saving user time by over **50%**.
- Ranked as a **top-10 contributor** to a global software project, delivering over **50 commits** and improving overall code quality.

## 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.

Redis-inspired in-memory database [↗](#) | *Go, Docker, RESP*

Aug 2020 - Jan 2021

- Designed and Created a Redis-inspired **in-memory database** server in **Go**, supporting key-value operations, replication, and persistence.
- Constructed master-replica synchronization using 'REPLCONF' and 'PSYNC', guaranteeing fault tolerance and real-time data consistency for **99.99% uptime**, a key project requirement.
- Implemented **Thread-safe mechanisms** within the RESP protocol parser, ensuring zero data corruption during concurrent client requests, increasing overall system reliability for the in-memory database.

## PUBLICATIONS/ACHIEVEMENTS

- Optimized *Diesel's* [↗](#) database connection pooling, leading to a **15% improvement** in query response times and contributing to enhanced application stability for over **10,000 active installations**.
- Published research papers detailing the creation of an **LSTM RNN model** [↗](#) and **Scalable Real-Time Messaging app** [↗](#) platform combined with real-time Twitter sentiment analysis.