Pratik Fandade

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EDUCATION

University at Buffalo, State University of New York | Aug 2024 – Dec 2025
Master of Science in Computer Science and Engineering | *Buffalo, NY*

Vishwakarma Institute of Technology, Pune | Aug 2018 – Aug 2022
Master of Science in Computer Science and Engineering | *India*

WORK EXPERIENCE

Redprint | Jun 2025 – Present
Software Developer Intern | *Buffalo, NY*

- Achieved Android support by launching a cross-platform fitness app using React Native and Go
- Improved UX and stability through builder/tracker modes using Zustand and native APIs
- Delivered and demoed app by leading full-stack mobile dev using Git, Expo, and React Native

Colgate Palmolive | Feb 2022 – Aug 2024
Software Engineering Intern | Junior Software Engineer | Software Engineer | *India*

- Achieved scale across 10K+ businesses by building inventory systems using Django, React, and PostgreSQL
- Enabled low-latency on 100M+ records through API/task optimization using GCP, Kubernetes, Celery, and RabbitMQ
- Cut deployment time 60% via automated CI/CD pipelines using GitHub Actions, Cypress, and Jest
- Reduced frontend load by 70% through architecture refactor using React, Redux, MUI-X, and Ag-grid
- Improved global reliability by fixing 100+ bugs/features through TDD and collaborative dev.
- Delivered key features used in 100+ countries via full-stack contributions using Django and React.
- Boosted data validation 50% via fast pipeline handling 2.5K+ records/sec using async Python.

PROJECTS

Redis-inspired in-memory database ⧉ | *Go, Docker, RESP*

- Engineered a Redis-inspired in-memory database in Go, which became the foundational element for a high-performance caching layer, leading to a 30% reduction in average application response time.
- 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

- Guided performance, code quality and collaborate improvements by serving as a **Code Reviewer** on the open-source **Diesel ORM Builder in Rust**, focusing on database connection pooling and compile-time query generation.
- Published research on **LSTM-based Stock Prediction** by integrating time-series modeling with Twitter sentiment analysis.