PRATIK FANDADE

(716) 339-8155 | pfandade@buffalo.edu | Buffalo, NY
linkedin.com/in/pratikfandade | github.com/prkbuilds | leetcode.com/u/prkbuilds

EDUCATION

University at Buffalo, State University of New York **Expected Graduation: Dec 2025**
Master of Science in Computer Science and Engineering *Buffalo, NY*

- **Relevant Coursework:** Distributed Systems, Object-Oriented Programming, Operating System, Database Management System, Artificial Intelligence, Machine Learning, Cyber Security, Data Structures and Algorithms

TECHNICAL SKILLS

- **Languages:** C, C++, C#, Python, HTML, CSS, JavaScript, TypeScript, Go, Rust
- **Frameworks:** React.js, Node.js, Webpack, Babel, NPM, Yarn, Spring Boot
- **Databases:** SQL(PostgreSQL, MySQL), MongoDB, Redis
- **Cloud/DevOps:** Amazon Web Services (AWS), GCP, Docker, Kubernetes, GitHub Actions, REST APIs, RabbitMQ
- **Tools & Testing:** Git (Version Control), Jenkins, Linux, Cypress, Appium, Selenium, JEST, Maven, Bash

WORK EXPERIENCE

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

- Delivered a full-featured Android productivity app by transforming wireframes into a scalable React Native product, enabling cross-platform support for Redprint's core features.
- Improved app reliability and user experience by implementing tracking and builder modes, resolving real-device bugs, and optimizing UI/UX flow using Zustand and native APIs.
- Showcased the project at UB's CSE Demo Day after leading end-to-end development and collaborating with a 5-member team, managing late-stage debugging, testing, and version control through Git and Expo.

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

- Built scalable inventory systems used by **10,000+** businesses through **Agile** collaboration with a 16-member engineering team using **full-stack** tools.
- Achieved low-latency performance while processing over **100 million records** by optimizing **RESTful APIs** and background tasks using **Django, React, GCP, Kubernetes, RabbitMQ, Celery,** and **Docker**.
- Accelerated deployment cycles by **60%** by leading the development of automated **CI/CD** pipelines using **GitHub Actions, Cypress**, and **Jest**.
- Reduced UI rendering overhead by **70%** through a complete frontend architecture refactor using **React, Redux, MUI-X, Ant Design,** and **Ag-grid**.
- Improved system reliability by resolving **100+ bugs** and feature requests via **Test-driven development (TDD)**, directly impacting global operations.
- Developed and shipped core features for software used across **100+** countries as part of a 6-person full-stack team.
- Accelerated data validation by over **50%** through the creation of a high-speed processing pipeline handling thousands of records per second.

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 and code quality 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.