

# PRATIK FANDADE

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## SKILLS

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- **Programming Languages:** Java, JavaScript/TypeScript, C++, Python, Go, Rust
- **Distributed Systems & Databases:** Raft, gRPC, Kafka, RabbitMQ, PostgreSQL, Redis, MySQL
- **Cloud & DevOps:** AWS (EC2, S3), GCP, Docker, Kubernetes, Terraform, CI/CD
- **Systems & Observability:** Linux, eBPF, Prometheus, Grafana, Performance Optimization
- **Frameworks & Tools:** Node.js, Django, React.js, TypeScript, GitHub Actions

## EXPERIENCE

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### Redprint - React Native, Go, AWS, Firebase

Buffalo, NY

Software Developer Intern

Jun 2025 – Present

- Accomplished a **35%** reduction in backend response latency as measured by API performance metrics by optimizing endpoints and implementing indexing.
- Achieved **CI/CD** deployment reliability as measured by zero downtime incidents by designing and maintaining automated GitHub Actions pipelines.
- Scaled application to **1,000+** active users as measured by real-time analytics by designing a production-grade backend architecture.

### Colgate Palmolive - React.js, Django, GCP, PostgreSQL, RabbitMQ, Docker

Mumbai, Maharashtra

Software Engineer

Aug 2022 – Aug 2024

- Increased backend throughput by **70%** as measured by load testing by introducing caching layers and optimizing database queries.
- Reduced build times by **60%** as measured by CI/CD pipeline metrics by implementing GitHub Actions with automated testing (Cypress, Jest) and TDD.
- Improved user task completion efficiency by **25%** as measured by internal usability testing by redesigning React.js workflows and optimizing MUI-X components.
- Maintained sub-100ms API latency as measured by monitoring dashboards by designing **distributed** REST APIs (Django, RabbitMQ, GCP) handling 1M+ daily requests.

### Colgate Palmolive - React.js, Django, PostgreSQL, Docker, GCP, GitHub CI/CD

Mumbai, Maharashtra

Software Engineering Intern

Feb 2022 – Aug 2022

- Shortened release cycles by 30% as measured by sprint velocity reports using **automated CI/CD workflows** with Cypress and Jest.
- Decreased UI re-renders by 43% as measured by React profiler metrics by refactoring component state management.

## PROJECTS

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### Distributed Key-Value Store | Go, gRPC, Raft, Docker

- Achieved **99.9% service uptime** as measured by simulated failure tests by implementing leader election and log replication using custom **Raft consensus**.
- Ensured consistent data writes as measured by **fault-injection testing** by designing gRPC APIs with leader forwarding and retry logic.

### Custom Linux Process Monitor | C, eBPF, Prometheus, Grafana

- Enabled **real-time kernel metric** visibility as measured by Prometheus scrape latency using a low-overhead eBPF tracing tool.
- Delivered continuous system monitoring as measured by live dashboards by integrating **Grafana** visualizations.

### Stock Trend Predictor | Python, LSTM-based RNN, Twitter API

- Achieved **91.9%** prediction accuracy as measured by backtesting results by building an **LSTM model** with sentiment analysis.
- Reduced **inference latency** by 10 seconds as measured by pipeline benchmarks by optimizing live data ingestion.

## EDUCATION

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### University at Buffalo, State University of New York

Buffalo, NY

Master of Science in Computer Science and Engineering

Aug 2024 – Dec 2025

### Vishwakarma Institute of Technology, Pune

Pune, Maharashtra

Bachelor of Technology in Information Technology

Aug 2018 – Aug 2022

## OPEN SOURCE, PUBLICATIONS & CERTIFICATIONS

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- Improved Diesel ORM query performance by optimizing connection pooling, contributing to an **Open-Source library (Rust)** as a contributor and reviewer.
- Published research achieving 90% stock trend prediction accuracy as measured by test datasets by combining time-series modeling and sentiment analysis.
- Increased crypto platform reliability by 35% as measured by uptime logs by optimizing Rust backend, RabbitMQ messaging, and PostgreSQL.
- Completed 10+ **Google Cloud Qwiklabs** as measured by earned credentials, covering GKE, Docker, Terraform, BigQuery, and CI/CD.