

PRATIK FANDADE

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SKILLS

- **Programming Languages:** Java, JavaScript/TypeScript, C++, Python, Go, Rust
- **Big Data Technologies:** Spark, Flink, HDFS, Hadoop, Airflow, custom ETL pipelines
- **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

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.
- Designed and implemented an automated data pipeline using **Airflow** to optimize business data imports and exports.

PROJECTS

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

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

- Contributed to **Open-Source** and contributor and reviewer to **Diesel ORM (Rust)** query performance by optimizing connection pooling.
- 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, Big-Data**, and **CI/CD**.