

Pratik Fandade

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SUMMARY

Software Engineer with 3+ years of experience designing, building, and operating scalable backend and distributed systems for production workloads. Strong foundation in computer science, systems programming, and data-intensive platforms. Experienced in writing maintainable code, debugging production issues using logs and telemetry, supporting live-site operations, and deploying secure, reliable services at scale. Currently pursuing a Master's in Computer Science with a focus on operating systems and distributed systems.

SKILLS

- **Programming:** C, C++, Go, Python, JavaScript, TypeScript
- **Backend & Systems:** Distributed Systems, REST APIs, gRPC, Background Jobs, Caching, Threading, Synchronization
- **Data & Storage:** PostgreSQL, MySQL, MongoDB, Redis, BigQuery, Indexing, Query Optimization
- **Cloud & DevOps:** AWS (EC2, S3), Docker, CI/CD, GitHub Actions, Kubernetes (basic), Terraform
- **Reliability & Quality:** Logging, Metrics, Monitoring, Incident Debugging, Unit & Integration Testing
- **Security:** Authentication, Authorization, Secure API Design, Role-Based Access Control

EXPERIENCE

Redprint - Software Developer Intern - New York, US **Jun 2025 – Present**

- Built and shipped production features using React Native and TypeScript backed by Go-based REST services supporting 1,000+ active users.
- Improved backend performance by 35% by optimizing request handlers, database indexing, and introducing request-level caching.
- Designed and deployed AWS infrastructure (EC2, S3) with Docker and GitHub Actions, enabling safe deployments and rollback strategies.
- Applied secure engineering practices by implementing authentication and role-based authorization for production systems.
- Supported live-site reliability through monitoring, log analysis, and performance validation under peak traffic.

Colgate Palmolive - Software Engineer - Mumbai, India **Aug 2022 – Aug 2024**

- Built and operated backend services using Python, Django, and PostgreSQL, reliably serving over 1M daily API requests.
- Increased system throughput by 70% through query optimization, caching patterns, and database performance tuning.
- Developed distributed components using Django and RabbitMQ to support asynchronous processing and scalable workloads.
- Participated in design discussions, code reviews, and test planning to improve system reliability and maintainability.
- Assisted with production incident analysis using logs and metrics, deploying fixes with minimal user impact.

Colgate Palmolive - Software Engineering Intern - Mumbai, India **Feb 2022 – Aug 2022**

- Delivered production-ready full-stack features using React.js and Django REST APIs within agile development cycles.

PROJECTS

Pintos OS | C, OS Kernel, Threads

- Implemented kernel thread scheduling, synchronization primitives, and virtual memory components.

TacoDB | C++, SQL, Query Engine, Buffer Manager

- Built a lightweight relational database engine with SQL parsing, buffer management, and cost-based query optimization

Distributed Raft-based Redis | Go, gRPC, Raft, Docker

- Implemented a fault-tolerant key-value store using Raft for leader election, log replication, and failure recovery.

EDUCATION

University at Buffalo, State University of New York (SUNY)

Master of Science in Computer Science and Engineering

Buffalo, NY

Aug 2024 – Dec 2025

Vishwakarma Institute of Technology, Pune

Bachelor of Technology in Information Technology

Pune, Maharashtra

Aug 2018 – Aug 2022