

DHRIT PATEL

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EDUCATION

California State University, Fullerton
Master of Computer Science (GPA: 3.89/4.00)

Aug 2024 – May 2026 (Expected)

Institute of Computer Technology
B.Tech in Computer Science and Engineering (CGPA: 8.00/10.00)

Aug 2019 – May 2023

PROFESSIONAL EXPERIENCE

Cloud Engineer (Intern) | DataHub LLC

Jan 2026 – Present

- Led migration of legacy **Oracle** workloads to **CockroachDB** in **cloud environments**, managing **20+ tables** and leveraging **distributed SQL** to ensure transactional correctness and application compatibility.
- Deployed, operated, and validated **3–5 node CockroachDB clusters** in the cloud, testing **replication, failover, fault tolerance, and data consistency** under node and network failure scenarios to verify high availability.
- Performed **benchmarking, tuning, and migration cutover validation** using **thousands of transactions**, analyzing **scalability, performance, and availability** while executing pre- and post-migration data checks to minimize production risk.

Full Stack Developer | Alps Web Solution

Dec 2023 – Jun 2024

- Designed, developed, and deployed end-to-end features using **Node.js** backend services and **React** frontend components, supporting **20+ REST API endpoints** with secure **authentication, business logic, and request validation** for customer-facing workflows.
- Optimized **MongoDB** models and queries; containerized services with **Docker** and supported **CI/CD**, reducing latency by **35%**, cutting incorrect responses from **50% to 5%**, and supporting production use by **hundreds of active users**.

Cloud Developer (Intern) | BISAG–N

Jan 2023 – Apr 2023

- Managed and enhanced **cloud-deployed data services** by building **Python pipelines** to ingest, clean, transform, and validate structured datasets, exposing data via backend APIs and reducing manual preparation time by **70%**.
- Operated **cloud-hosted backend services**, containerizing workflows with **Docker** and supporting deployment and CI/CD stability, reducing configuration issues by **30%** and enabling **25% faster** downstream analysis cycles.

PROJECTS

RateMyBot | TypeScript, React, Supabase | [ratemybots.com](#)

Jan 2026 – Present

- Developed the RateMyBot platform using **TypeScript** and **React**, shipping an embeddable feedback widget integrated across **2+ client applications** to capture thumbs-up/down signals with **per-message scoring** for chatbot feedback analysis at scale.
- Implemented a **Supabase**-backed data model to store and query **10K+ feedback events**, enabling **sub-second read performance** for analytics views and maintaining responsiveness as datasets grew.

Build Your Own Redis | C++, Systems Programming, Networking, Concurrency

Aug 2025 – Dec 2025

- Forged a concurrent in-memory key-value store using **C++**, decreasing average read/write latency by 18% and achieving upwards of 65,000 operations per second under typical benchmarked application workloads.
- Devised a custom publish-subscribe system using the **Redis Serialization Protocol (RESP)**, streamlining error handling to save 8 hours per week in debugging, and enhancing system performance under concurrent workloads.

Enterprise RAG AI Agent | Python, FastAPI, PostgreSQL, RAG, LLM Agents

Jan 2025 – Jul 2025

- Constructed a **production-grade RAG-based AI agent system** using **Python** and **FastAPI**, integrating **PostgreSQL + pgvector** for semantic retrieval with **150ms average retrieval latency** across **50K+ embedded records**.
- Fine-Tuned **transaction-safe token usage and cost tracking** in **PostgreSQL**, recording per-request tokens and latency to enable **100% auditable usage logs** and reduce LLM cost overruns by **30%** in multi-user workloads.

Cloud Monitoring and Alerting System | Prometheus, Grafana, AWS CloudWatch

Aug 2024 – Dec 2024

- Designed and implemented a **cloud-wide monitoring and observability system** using **Prometheus** and **Grafana**, improving issue detection accuracy and reducing incident response time by **35%** across monitored services.
- Configured **AWS CloudWatch** alarms and log-based alerts to support automated detection of critical system events, reducing response time for high-severity alerts by **25%**.
- Built and maintained a reliable **alerting pipeline** monitoring **50+ metrics** with **99.9% uptime**, strengthening system reliability and operational visibility in production environments.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++

Frameworks: React, Next.js, Node.js, FastAPI, Flask, REST APIs

Databases: PostgreSQL, MongoDB, MySQL, DynamoDB, CockroachDB

Cloud & Tools: AWS, Google Cloud Platform (GCP), Oracle, Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD, CloudWatch

Concepts: Data Structures and Algorithms, Distributed Workflows, API Design, Automation, AI Integration, Agile SDLC