

DHRIT PATEL

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EDUCATION

California State University, Fullerton Aug 2024 – May 2026 (Expected)
Master of Computer Science (GPA: 3.89/4.00)

Institute of Computer Technology Aug 2019 – May 2023
B.Tech in Computer Science and Engineering (CGPA: 8.00/10.00)

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