

Kashish Madhav Phulwani

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EDUCATION

Master of Science in Computer Science | California State University, Long Beach

Jan 2026 - Dec 2027

- **Current GPA: 4.00/4.00** | Coursework: Advanced Analysis of Algorithms, Advanced Topics in Programming Languages, Advanced Software Engineering.

B.E Computer Engineering | University Of Mumbai

Aug 2019 - May 2023

CGPA: 9.34/10

- Coursework: Artificial Intelligence, Machine Learning, Advanced DBMS, Data Structures & Algorithms, Cloud Computing, Object Oriented Programming, Big Data Analytics & System Security.

WORK EXPERIENCE

Software Engineer | JPMorgan Chase & Co.

Aug 2023 - December 2025

- Designed and built RESTful APIs and backend services for enterprise data retrieval and transformation, consumed by multiple internal teams, while communicating technical concepts to non-technical stakeholders.
- Built and maintained ETL and batch-processing workflows ingesting and transforming millions of client records for downstream validation and analytics.
- Improved observability across 6 production services by building Grafana dashboards and Datadog monitors for latency, throughput, and error rates, enabling faster incident detection and debugging.
- Built CI/CD pipelines using Jenkins and GitHub Actions with Dockerized builds, enabling zero-downtime blue-green deployments across coordinated monthly releases of all 6 services and their AWS infrastructure.
- Automated AWS infrastructure provisioning with Terraform across EC2, S3, and Lambda for data-driven services, ensuring reproducible and auditable environments.
- Developed a Python-based synthetic data generation framework (Faker) producing datasets of thousands of records across 15-20 relational tables, with PII masking on all client-sensitive fields to enable safe lower-environment testing without production data.
- Helped establish the team's early chaos engineering practice with Gremlin, simulating infrastructure failures to validate fault tolerance and improve service resiliency.

SKILLS

- **Programming:** Python, Java, SQL, JavaScript
- **Backend & APIs:** RESTful APIs, FastAPI, SpringBoot, React, Git
- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda), Terraform, Docker, CI/CD (Jenkins, GitHub Actions), Blue-Green Deployments
- **Observability & Reliability:** Grafana, Datadog, Chaos Engineering (Gremlin), Performance & Latency Monitoring
- **Databases:** PostgreSQL, MySQL, ChromaDB (vector database)
- **AI/ML & Data:** RAG Pipelines, LLM Orchestration, Vector Embeddings, Prompt Engineering, Pandas, NumPy, Scikit-learn

PROJECTS

Academic Assistant - LLM Serving & Adaptive RAG Pipeline | Python, ChromaDB, Async I/O

[GitHub](#)

- Solely designed and built an end-to-end LLM inference and response-streaming pipeline using Python asynchronous generators and server-sent events (SSE), delivering token-level streaming with traceable live URL citations.
- Designed a hybrid Retrieval-Augmented Generation system that routes queries between ChromaDB vector retrieval (academic policy data) and live web search for real-time information, based on query intent.
- Developed an LLM-based query optimization and expansion layer converting conversational queries into targeted keyword strings, improving retrieval precision.
- Implemented prompt guardrails and ambiguity detection (e.g., unspecified campus) to trigger clarifying questions before generation, improving answer reliability.

Music Genre Detection - End to End ML Pipeline | Python, KNN, Signal Processing, React

- Built an end-to-end machine learning pipeline for music genre classification using KNN, covering audio feature extraction, data cleaning, model training, and evaluation.
- Served model inference through a backend integrated with a responsive React interface, enabling users to upload audio and view real-time genre predictions plus a content-based top-5 song recommender.

CERTIFICATIONS & ACTIVITIES

- AWS Certified Developer – Associate
- Hackathons: 24-Hour Hackathon at JPMC (2023), Rubix Hackathon at CSI-TSEC (2022), BlindCode at Ascent'22 (TSEC)