

DHANANJAY PATEL

AI / ML & Agent Engineer • LLM Systems & Backend Infrastructure

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Location: Florida • Authorized to work in the U.S.

PROFESSIONAL SUMMARY

AI/ML and agent engineer with 4+ years of backend engineering experience and an M.S. in Software Engineering. Builds LLM-powered applications and agentic systems, Anthropic Claude, OpenAI, Google ADK, and MCP with PyTorch model components, backed by production experience in Go, Java, and Python microservices on GCP, AWS, and Azure, including Kubernetes orchestration and Kafka event pipelines.

TECHNICAL SKILLS

AI / ML & Agent Engineering: Anthropic Claude, Claude Code, OpenAI, Google Agent Development Kit (ADK), Agentic Workflows (MCP), AI Agents, PyTorch, Prompt Engineering, AI Recommendation Systems

Backend & Languages: Go, Java, Python, JavaScript/TypeScript, C++, SQL, NoSQL

Cloud & Infrastructure: GCP, AWS, Azure, Docker, Kubernetes, Terraform, Kafka, CI/CD (GitHub Actions), Microservices, Distributed Systems

Data & APIs: RESTful API Design, MySQL, PostgreSQL, Data Ingestion & Validation Pipelines, JSON/XML

Testing & Ops: Go test/race detector, JUnit, TestNG, Selenium, WebdriverIO, Root-Cause Analysis, Dependency Auditing, Access Control

WORK EXPERIENCE

Software Engineer | Prompt Softech, Ahmedabad, India | Jan 2020 – May 2023

- Built high-throughput Go microservices for data ingestion (goroutines/channels), improving pipeline throughput by 30% and cutting latency on critical paths.
- Deployed and operated Go/Java services across GCP, AWS, and Azure using Docker, Kubernetes, and Terraform, standardizing multi-environment deployments.
- Built Kafka-based event pipelines for high-volume structured/unstructured data ingestion, and applied PyTorch for a data-classification component in the pipeline.
- Built CI/CD-integrated regression pipelines, raising test coverage 40% and cutting regression cycle time 25%; led root-cause analysis on 200+ defects, improving resolution turnaround 35%.

Software Developer Intern | Ocean Shark, New Jersey, NJ | May 2024 – Aug 2024

- Owned backend API features integrated with React components, translating requirements from 40+ user research participants into production-ready code.
- Built and validated REST API integrations for contract compliance and error handling, cutting task failure rates 35% and raising satisfaction 20%.
- Containerized services with Docker/Kubernetes across staging environments; partnered with PMs in Agile sprints, accelerating release timelines 30%.

PROJECT EXPERIENCE

AI Clinical Support System | Independent Project | Jan 2025 – Present

Python (Flask), Anthropic Claude, Claude Code, PyTorch, MCP

- Built a backend-first AI clinical-assistant system in Python (Flask), integrating Claude for reasoning and a fine-tuned PyTorch model for triage classification.
- Used Claude Code and MCP-based agent tooling to build and iterate the agentic backend; added structured logging and audit trails for monitoring.

AgentShield — Zero-Trust Security Control Plane for AI Agents | Independent Project | 2026

Go, OPA/Rego, PostgreSQL, Docker Compose

- Built a zero-trust control plane governing autonomous AI agent access to sensitive tools and infrastructure using short-lived agent sessions and contextual risk evaluation.
- Implemented OPA/Rego policy-as-code to issue ALLOW / DENY / REQUIRE_APPROVAL decisions, backed by human approval workflows, temporary authorization grants, protected API enforcement, and a PostgreSQL audit trail.

LearnMate — AI E-Learning Platform | Independent Project | Mar 2024 – May 2024

Django REST Framework, React + TypeScript, MySQL, OpenAI API

- Built an OpenAI-based content-recommendation pipeline, improving learner engagement 30%, on a REST platform serving 1,000+ concurrent learners.

Shakti Foods — E-Commerce Platform | Independent Project | 2025 – 2026

Next.js, React, TypeScript, Kafka, Google ADK, Vercel

- Shipped a live storefront (shakti-foods.com) with cart/checkout for retail and a wholesale-inquiry flow for bulk orders; used Kafka to stream order/inventory events and a Google ADK agent to handle wholesale-inquiry triage.

EDUCATION

M.S., Software Engineering | Cleveland State University, Cleveland, OH | Aug 2023 – May 2025

B.S., Computer Science & Engineering | Parul University, Vadodara, India | May 2020

CERTIFICATIONS

AI Engineer Agentic Track: Agent & MCP Course (Udemy, 2024) • Cyber Security Certification (Coursera, 2024) • Machine Learning & AI Foundations (Coursera, 2025) • Software Architecture & Design Patterns (Udemy, 2025) • Medical Device Software Development, IEC 62304 Awareness (MIT OpenCourseWare, 2025)