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Generative AI Solutions Developer | End-to-End MLOps & CI/CD

SUMMARY Entry-level software engineer proficient in Python, C++, LangChain/LangGraph, and GPT 4o for LLM applications. Built and deployed production-ready AI microservices with Docker and Railway CI/CD, leveraging synthetic testing and prompt engineering to boost reliability. Adept at managing the complete MLOps lifecycle—from data ingestion and model orchestration through cloud deployment and production monitoring—underpinned by rigorous training in algorithms and operating systems. Proud Eagle Scout with proven leadership experience, including guiding teams through demanding physical and mental challenges.

CORE SKILLS • Python • C++ • Prompt Engineering • LangChain / LangGraph • LLM APIs (OpenAI GPT 4o) • Docker & Containerization • CI/CD (Railway / GitHub Actions) • MLOps & Synthetic Testing • Regex / JSON Parsing • SQLite / SQL • FastAPI Microservices • AWS (EKS basics) • Kubernetes Concepts & RAG Patterns

PROJECTS LLM Driven Course Recommendation Engine (Python, GPT 4o, LangChain/LangGraph, Docker, Railway) • Designed & productionized an LLM-driven engine that parses over 30 course records to generate ranked, concise recommendations tailored for Computer Science majors. • Built multi-step LangGraph DAG (stringify → LLM → parse → persist), achieving 0% runtime parsing errors across 50+ test runs. • Implemented mock LLM synthetic tests, reducing unit test latency by 90%, enabling rapid CI pipelines and automatic deployments to Railway with log-based monitoring.

Smart Elective Advisor Desktop App (Python, Tkinter, SQLite, LangChain/OpenAI) • Engineered normalized SQLite schema and ETL scripts for data ingestion covering colleges, departments, and job datasets; maintained referential integrity via foreign keys. • Integrated GPT 4o using reusable prompt templates; parsed Markdown outputs to JSON format, storing results for offline accessibility. • Added cascading GUI dropdowns, bcrypt-based authentication, and streamlined setup with a single bootstrap command, reducing user setup time from 20 minutes to under 2 minutes.

EDUCATION B.S. Computer Science – California State University, Fullerton • Expected Dec 2025 Relevant coursework: Algorithms & Data Structures • Operating Systems • Artificial Intelligence • Cybersecurity Foundations

LEADERSHIP & ACHIEVEMENTS Eagle Scout – Boy Scouts of America • Achieved the prestigious Eagle Scout rank, demonstrating significant leadership, teamwork, and commitment. • Led a team of 10 Scouts on a challenging 50-mile, 7-day backpacking expedition culminating in the successful ascent of Mount Whitney—the highest peak in the contiguous United States—strengthening my leadership, resilience, and perseverance.