MANIYA KOHLI

Software Development Engineer (SDE)

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EDUCATION

Masters , Computer Science
San Francisco State University
📅 2025 - Present

Bachelors , Mechanical and Automation
Indira Gandhi Delhi Technical University
📅 2018 - 2022

SKILLS

Programming Languages
Python, NodeJS, Java, NextJS , TypeScript

Database
Pinecone, Chroma , MongoDB, PostgreSQL, ElasticSearch

Web Technologies and Framework
AWS, SpringBoot , FastAPI , NumPy, Pandas, scikit-learn , Tensorflow

LLM / Generative AI:
HuggingFace Transformers, LangChain, OpenAI API, RAG architectures

PROJECTS

TreeFlow Integration Framework

- The TreeFlow Integration Framework revolutionized FETCH's backend by implementing a **General Tree system** with **cross-referencing**. This allowed configurations for integrations like POS systems, printers, loyalty programs, and payment gateways, set at the top level, to automatically propagate to all lower levels without redundant copies. By leveraging cross-referencing, the system eliminated manual reconfiguration, reduced errors, ensured consistency, and significantly improved scalability and operational efficiency.

LoyaltyPay Integration System

- The LoyaltyPay Integration System seamlessly integrated FETCH's loyalty program with the billing system, enabling users to redeem points for bill splitting, tips, and partial bill payments. A robust rollback mechanism ensured transactional consistency, reverting loyalty points and payments if Stripe transactions failed or points were not deducted. This enhanced user experience and ensured system reliability.

AI Travel Planning Chatbot

- Built a full-stack AI travel planning platform with modular microservices using Python, FastAPI, SQLAlchemy, PostgreSQL, Redis, and Docker Compose. Developed a conversational Next.js/React (TypeScript) frontend for persistent threads and rich itinerary cards. Integrated RAG with Chroma vector DB (LangChain patterns) and background workers for trip-planning jobs and assistant response persistence. End-to-end ownership across backend APIs , advanced retrieval, and custom AI UX.

EXPERIENCE

Software Developer
CoreValue Technology
📅 01/2023 - 01/2025 📍 Noida, India

- Engineered the implementation of a scalable general tree structure integrated with cross-referencing mechanisms to streamline data management , reducing retrieval times by 30% and improving system consistency by 40%.
- Designed and implemented a loyalty system for Fetch using the adapter pattern, enabling seamless integration of QR code-based bill splitting, tip payments, and loyalty point redemption. Enhanced system scalability and customer experience, contributing to the successful closure of a strategic partnership deal with a major hospitality brand - Accor
- Led the migration of 17-18 million user records from Elasticsearch to OpenSearch and MongoDB to PostgreSQL, ensuring seamless data transfer and accurate role mapping. Optimized migration services to achieve 99.9% data integrity and reduced downtime by 30%, enabling a smooth transition with minimal impact on end-users.
- Technologies used: **Spring Boot, Java, Python, PostgreSQL, AWS, KeyCloak, Git, NodeJS , TypeScript**

Software Developer Intern
CoreValue Technology
📅 10/2022 - 01/2023 📍 Noida, India

- Developed back-end applications using **Spring Boot**, integrating **PostgreSQL** and **KeyCloak** for security and created RESTful APIs for targeted notifications to doctors.
- Gained expertise in **AWS** (SQS, SES), microservices, and advanced programming concepts like multithreading, Dependency Injection, and Asynchronous Programming.
- Implemented DevOps practices using **Docker** and gained hands-on experience in database integration and application security.

CERTIFICATION

Machine Learning Specialization
DeepLearning.AI, Stanford University

Crash Course on Python
Google

Mathematics for Machine Learning and Data Science Specialization
DeepLearning.AI

Data Structures and Algorithms Specialization
UC San Diego