CARLOS NAKID

AI & Data Engineer

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EXPERIENCE

AI & Data Engineer

AI Projects

- Designed and deployed an agentic AI research assistant using CrewAI, LangChain, FastAPI, and Gemini to orchestrate multi-agent reasoning across structured and unstructured enterprise data
- Built an LLM-driven SQL generation engine capable of inspecting SQLite schemas, generating optimized SQL queries, validating execution and answering natural language questions
- Engineered production-grade fastAPI backend services for conversation state management, agent orchestration and frontend integration
- Designed hybrid RAG pipeline combining structured database retrieval with external search to improve answer completeness and reduce hallucinations
- Implemented validation and structured outputs to improve reliability of downstream AI workflow

AI Recommendation Platform

Google Cloud

- Developed and deployed an LLM-powered recommendation assistant using Gemini and vector embeddings to deliver personalized learning recommendations
- Designed scalable GCP data pipelines using Cloud Run, Cloud SQL, and BigQuery for ingestion, transformation, and retrieval of recommendation data
- Built FastAPI backend services leveraging embedding similarity search and SQL-based vector retrieval for low-latency recommendations
- Collaborated across product, frontend, and backend teams to deliver the solution through deployment on Google Cloud
- Maintained production reliability by improving data pipelines and resolving backend issues across cloud services

Conversational AI Engineer

NLU Optimization

- Evaluated and redesigned enterprise NLU architecture to improve intent recognition and conversational accuracy
- Developed disambiguation flows and implemented new conversational logic in Microsoft Copilot
- Proposed and designed automated NLU evaluation using CLU metrics, confusion matrices, and performance benchmarking
- Led cross-functional alignment between design and development teams to ensure accurate implementation
- Validated production behavior through comprehensive testing of training utterances and custom evaluation dataset

SUMMARY

AI & Data Engineer building production LLM systems using Agentic AI, RAG, FastAPI, and Google Cloud. Experienced designing multi-agent architectures, semantic retrieval pipelines, conversational AI platforms, and AI-powered backend services deployed on cloud infrastructure.

SKILLS

AI

LLMs · Gemini · RAG · Agentic AI · LangChain · CrewAI · Embeddings · Semantic Search · Prompt Engineering

Cloud

GCP · Vertex AI · BigQuery · Cloud Run · Cloud SQL

Backend

FastAPI · REST API · Data pipelines

TRAINING / COURSES

GenAI for Developers

Google Cloud Skills

Build Real World AI Applications with Gemini and Imagen

Google Cloud Skills

EXPERIENCE

QA Engineer

Conversational AI

- Designed and executed 150+ end-to-end validation scenarios across 20+ conversational AI flows prior to production deployment
- Partnered with developers to identify, prioritize, and resolve conversational AI defects using Dialogflow, Postman, and JIRA
- Automated reporting workflows that consolidated testing results and accelerated engineering visibility into production issues
- Trained new QA engineers while standardizing testing processes across the project

Data Management

Finance Automation

- Automated 10+ financial reporting workflows using VBA, eliminating repetitive manual processes across finance operations
- Modernized enterprise reporting infrastructure by leading migration from Excel 2008 to Microsoft 365
- Built automated reporting solutions by translating finance requirements into scalable technical workflows
- Maintained and enhanced production financial reporting systems while resolving critical production issue

EDUCATION

Bachelor of Business Administration

Instituto Tecnológico y de Estudios Superiores de Monterrey