

Spencer Jireh Cebrian

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Experience

Junior Software Engineer, Stratpoint Technologies, Inc.

Sept 2024 – present

Built AI-powered applications with LangGraph agents, RAG pipelines, and Python/FastAPI backends on AWS architecture

- **AI Customer Service Platform:** Built full-stack AI chatbot platform for Fortune 500 automotive manufacturer – React/TypeScript admin portal, embeddable chat widget, and FastAPI backend on AWS Lambda/DynamoDB – serving ~3,000 unique users across web and mobile with consistent month-over-month growth
- Maintained and enhanced LangGraph-based conversational agent with RAG retrieval and prompt engineering, achieving ~97% automated resolution rate across customer queries
- Designed LangGraph agent workflow with intent classification, FAISS-based RAG retrieval, tool execution, and a multi-step handover state machine, processing 5,700+ messages with data pipeline integration
- Implemented intent classification system with topic mapping and ReAct agent tool orchestration, automatically matching FAQ queries to knowledge base entries
- Developed analytics dashboards and intent classification pipeline tracking user trends and message categories, enabling data-driven improvements to knowledge base coverage
- **Federated Machine Learning Platform:** Delivered MVP with secure aggregation backend in Python and NextJS dashboard for global automotive components manufacturer, enabling privacy-preserving ML model training across distributed nodes
- **Internal R&D & Presales:** Built agentic document processing workflows and full-stack MVPs for prospective client demonstrations, supporting active presales engagements

Java Intern, Stratpoint Technologies, Inc.

June 2024 – Sept 2024

Built payment system microservices with Spring Boot and Node.js, deployed via Docker/Kubernetes CI/CD pipeline

- Developed RESTful APIs with JWT authentication and KYC verification using Kafka for event streaming, PostgreSQL, and Redis
- Integrated third-party payment gateway with webhook handlers and async event processing

Projects

Arxivian

Full-stack application utilizing agentic RAG workflows for semantic search and Q&A on arXiv research papers, built with NextJS, FastAPI, and LangGraph

Folionaut

TypeScript/Express portfolio backend with content versioning, AI-powered chat with MCP server integration, and resilience patterns including circuit breakers and OpenTelemetry tracing, built with Bun and Turso

Skills

AI & ML: LangGraph, LangChain, TensorFlow, Scikit-learn, Retrieval-Augmented Generation (RAG)

Languages: Python, JavaScript/TypeScript, Java

Backend: FastAPI, Express, NestJS, Spring Boot

Infra & DevOps: AWS (Lambda, DynamoDB, CDK), PostgreSQL, pgvector, Redis, MongoDB, MySQL, Docker

Frontend: React.js, NextJS

Education

Mapua University, BS in Computer Science – Makati

Jan 2025

Certifications

AWS Academy Graduate - Cloud Foundations

2024