

Spencer Jireh Cebrian

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Experience

Junior Software Engineer, Stratpoint Technologies, Inc.

Sept 2024 – present

Built backend services and APIs with Python/FastAPI on AWS architecture

- **AI Customer Service Platform:** Built AI chatbot backend for Fortune 500 automotive manufacturer, delivering FastAPI services on AWS Lambda/DynamoDB serving ~3,000 unique users with consistent month-over-month growth
- Architected 12 FastAPI microservices with a shared library layer, deployed as containerized Lambda functions, shipping 77 features across 10 releases in 9 months
- Built real-time WebSocket messaging system with per-user and per-IP rate limiting, connection management, and DynamoDB TTL-based session lifecycle
- Developed analytics endpoints and intent classification pipeline tracking user trends and message categories, enabling data-driven knowledge base improvements
- Maintained and enhanced LangGraph-based conversational agent with RAG retrieval and prompt engineering, achieving ~97% automated resolution rate across customer queries
- **Federated Machine Learning Platform:** Delivered MVP with secure aggregation backend in Python for global automotive components manufacturer, enabling privacy-preserving ML model training across distributed nodes
- **Internal R&D & Presales:** Built agentic document processing workflows and backend services for prospective client demonstrations, supporting active presales engagements
- **Internal Learning Platform:** Built learning management system with NextJS frontend and NestJS microservices backend, with Redis caching and Prometheus/Grafana observability

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

EECE Consultation Hub

Web application with 1,000+ yearly active users for Mapua University's academic consultation scheduling, built with NextJS, PostgreSQL, and SSE for real-time updates

Skills

Languages: Python, Java, JavaScript/TypeScript

Backend: FastAPI, Spring Boot, Express, NestJS

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

Frontend: React.js, NextJS

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

Education

Mapua University, BS in Computer Science – Makati

Jan 2025

Certifications

AWS Academy Graduate - Cloud Foundations

2024