

Spencer Jireh Cebrian

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Experience

Junior Software Engineer, Stratpoint Technologies, Inc.

Sept 2024 – present

Built AI-powered web applications with Python/FastAPI backends and React/TypeScript frontends 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
- Built real-time WebSocket messaging system with per-user and per-IP rate limiting, connection management, and DynamoDB TTL-based session lifecycle
- Architected 12 FastAPI microservices with a shared library layer and pytest test suites, deployed as containerized Lambda functions, shipping 77 features across 10 releases in 9 months
- Developed analytics dashboards and intent classification pipeline tracking user trends and message categories, enabling data-driven improvements to knowledge base coverage
- 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 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
- **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
- Wrote unit and integration tests across microservices with JUnit and Jest

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, JavaScript/TypeScript, Java

Frontend: React.js, NextJS

Backend: Express, NestJS, Spring Boot, FastAPI

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

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