

Spencer Jireh Cebrian

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Summary

Full-stack engineer with experience building web applications, backend APIs, and agentic AI systems using Python, TypeScript, and Java on AWS infrastructure.

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:** Owned development and maintenance of full-stack platform for Fortune 500 automotive client, building React/TypeScript portal, embeddable chat widget serving 2,500+ unique users yearly, and FastAPI backend on AWS Lambda/DynamoDB
- Implemented ticket management system, knowledge base admin interface, and analytics dashboards
- Maintained and enhanced LangGraph-based conversational agent with RAG retrieval, improving automated query resolution through prompt engineering and retrieval tuning
- **Federated Machine Learning Platform:** Built secure aggregation backend in Python and NextJS dashboard for global automotive components manufacturer, enabling privacy-preserving ML across distributed nodes
- **Internal R&D & Presales:** Developed agentic document processing workflows for internal use and built full-stack MVPs for prospective client demonstrations

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

Folianaut

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

Languages: Python, JavaScript/TypeScript, Java

Frontend: React.js, NextJS

Backend: Express, NestJS, Spring Boot, FastAPI

Infra & DevOps: PostgreSQL, MySQL, MongoDB, pgvector, Redis, AWS CDK, Docker

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

Education

Mapua University, BS in Computer Science – Makati

2025

Certifications

AWS Academy Graduate - Cloud Foundations

2024