

# 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:** Integrated agentic AI solutions into full-stack applications using Python and TypeScript frameworks
  - **Presales Engineering:** Built full-stack MVPs to support technical demonstrations for prospective clients

**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 flow using Kafka for event streaming, PostgreSQL for persistence, and Redis for session caching
  - Integrated third-party payment gateway with webhook handlers and async event processing for transaction state management

## 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

**Databases:** PostgreSQL, MySQL, MongoDB, pgvector, Redis

**Cloud & DevOps:** AWS CDK, Docker, GitHub Actions

**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