

# Spencer Jireh Cebrian

spencerjireh.com | spencercebrian123@gmail.com | linkedin.com/in/spencerjireh | github.com/spencerjireh

## Experience

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**Junior Software Engineer**, Stratpoint Technologies, Inc.

Sept 2024 – present

Built full-stack web applications with React/TypeScript frontends 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
- Developed embeddable chat widget with Shadow DOM isolation, AES-CBC encrypted local storage, state machine lifecycle, and WebSocket integration
- 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

## Projects

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### 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

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**Languages:** JavaScript/TypeScript, Python, Java

**Frontend:** React.js, NextJS

**Backend:** Express, NestJS, Spring Boot, FastAPI

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

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

## Education

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**Mapua University**, BS in Computer Science – Makati

Jan 2025

## Certifications

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**AWS Academy Graduate - Cloud Foundations**

2024