

# Spencer Jireh Cebrian

✉ spencercebrian123@gmail.com | ☎ 0945 683 3995 | 🌐 spencerjireh.com | 💬 spencer-jireh-cebrian

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## Education

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Mapúa University, BS in Computer Science – Makati

Aug 2020 – Feb 2025

- Specialization in Data Science

## Experience

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

Sept 2024 – present

Full-stack engineer developing web applications integrated with AI/ML systems using Agile/Scrum methodologies, working across React/TypeScript frontends, Python/FastAPI backends, and AWS cloud infrastructure for scalable AI-powered solutions

- **ChatTy (AI-Powered Customer Service SaaS Platform)**: Contributed to architecture design and full-stack development for Fortune 500 automotive/motorcycle manufacturer with React/TypeScript frontend and FastAPI/Python backend
- Built AI-driven query resolution, agent ticket management, bot knowledge base administration, and analytics dashboards with CRM functionality
- Deployed on AWS serverless infrastructure using Docker and AWS CDK
- **D-FLIP (Privacy-Preserving Federated Learning Platform)**: Built frontend and backend components for global Tier 1 automotive supplier as part of development team enabling distributed ML model training across federated nodes
- Implemented secure data aggregation protocols using Python with enhanced NextJS user interfaces

**Java Intern**, Stratpoint Technologies, Inc.

June 2024 – Sept 2024

Built microservices architecture prototypes for payment system, focusing on backend development with Spring Boot and Node.js

- Built Spring Boot and Node.js Express prototypes for **Quantum Cash** payment system, developing microservices architecture with RESTful APIs, JWT authentication, and KYC system with user uploads, utilizing Kafka for message brokering, PostgreSQL for data storage and Redis for caching
- Integrated third-party APIs including SendGrid and Stripe for email notifications and payment processing with webhook callbacks and async event processing
- Established CI/CD pipeline using Docker and Kubernetes for automated build, testing, and deployment processes

## Projects

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### EECE Consultation Hub

Web application deployed to 900+ yearly active users for academic consultation scheduling

- Built with NextJS and MongoDB, prototyped using FlutterFlow

### Breast Cancer Predictor

Machine learning-based predictor for cancer malignancy using classification models

- Developed using Python with Scikit-learn, Flask, Streamlit, and Pandas

### Philippine Traffic Violation Detection

Deep learning comparative analysis of YOLOv7, DeepSORT, and Faster R-CNN for license plate detection

- Implemented with Python, TensorFlow, PyTorch, OpenCV, and YOLO

## Skills

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

**Frontend Development:** React.js, NextJS, React Native, HTML, CSS

**Backend Development:** Node.js, NestJS, Spring Boot, FastAPI

**Databases & Cloud:** MySQL, MongoDB, PostgreSQL, DynamoDB, Amazon Web Services (AWS), AWS Lambda, AWS CDK, Google Firebase

**DevOps, CI/CD & Tools:** Docker, Kubernetes, Git, GitHub, GitLab, GitHub Actions

**Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn

## Certifications

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- Amazon Web Services (AWS) Academy Graduate - AWS Academy Cloud Foundations