

EJ Caliwag

BACKEND / FULL-STACK ENGINEER | AI SYSTEMS

Seoul, South Korea (UTC+9) | Open to relocation | Remote, hybrid, or on-site
F-series visa holder in South Korea | ejcaliwag.emfc@gmail.com | +82 10-8415-1725
ejcaliwag.dev | github.com/ejmfrancisco | linkedin.com/in/ejmfrancisco

Software engineer with an applied AI background, working across backend processing, messaging, data pipelines, and deployment. Builds web interfaces with React, Next.js, and TypeScript; brings experience coordinating end-to-end AI services.

TECHNICAL SKILLS

Python, TypeScript, React, Next.js, SQL, PostgreSQL, MongoDB, ZeroMQ, Docker, Kubernetes, AWS, Apache Airflow, PyTorch

SELECTED EXPERIENCE

Tridge | Assistant Manager, ML Engineer

April 2025 - Present

- Develop an LLM-based news classifier within the Backend Department AI Team.
- Compare model versions and improve processing algorithms and backend system performance.

Tricubics | Lead AI/Software Engineer

March 2024 - March 2025

- Led end-to-end AI/software work and coordinated team progress and schedules.
- Maintained Docker/Kubernetes deployment workflows; integrated ZeroMQ messaging and optional MongoDB transaction storage.
- Integrated YOLOv8 detection, TensorRT optimization, MobileNetV3 classification, and ByteTrack/DeepSORT tracking with frame-zone decision logic.

Data Design Engineering | AI Engineer

October 2022 - February 2024

- Handled data pipelines and system automation using AWS, Apache Airflow, Docker, PostgreSQL, and MongoDB.
- Trained and deployed computer-vision models for book-spine and embedded face detection; worked with U-Net and YOLO model families.

Kumoh National Institute of Technology | Laboratory Research Assistant

February 2020 - February 2022

- Developed edge/cloud and IoT research systems using AWS, NVIDIA Jetson, Raspberry Pi, and multimodal machine learning.

EDUCATION

MSc, Electronics Engineering | Kumoh National Institute of Technology | 2020-2022 | GPA: 4.32/4.5

BS, Information Technology | STI College Caloocan | 2015-2019 | GPA: 3.70/4.00

SELECTED WEB WORK

Bilingual portfolio: Next.js, React, and TypeScript; responsive project pages, searchable catalog, theme support, and a contact API integration. ejcaliwag.dev