Bijon Setyawan Raya

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EXPERIENCE

Machine Learning Engineer · November 2024 – Now
Cathay United Bank · *Taipei, Taiwan*
- Developing a guardrail mechanism to ensure seamless and safe interactions with LLMs.
- Leading the development of a multi-AI agent API tailored for various business units.

Intermediate Fullstack Developer · October 2022 – March 2024
Faria Education Group · *Taipei, Taiwan*
- Achieved a 98.33% time reduction in file export and improved user feed search speed and accuracy.
- Refactored one fourth of the code base from older to recent web technologies.

Graduate Research Scientist · February 2021 – January 2023
National Tsing Hua University · *Hsinchu, Taiwan*
- Developed a prototype for ascheduling system for a distributed deep learning system.

Teaching Assistant · Sep. 2020 – January 2023
National Tsing Hua University · *Hsinchu, Taiwan*
- Intro. to C/C++ Programming and Linear Algebra.

EDUCATION

National Tsing Hua University · Hsinchu, Taiwan
Master of Science in Computer Science · *January 2023*

National Tsing Hua University · Hsinchu, Taiwan
Bachelor of Science in Computer Science · *January 2021*

TECHNICAL SKILLS

Languages: C/C++, Python*, JavaScript/TypeScript.
Web Development: FastAPI*, Next.js.
Deep Learning: Horovod, Keras, PyTorch*.
Data Analysis: Numpy, Pandas, PySpark, Hadoop
Machine Learning: Scikit-learn.
Database: DuckDB, ElasticSearch, MySQL, PostgreSQL, SQLite.
Utilities: Docker*, Kubernetes*, Git, Linux/Unix.
Web Platform: Amazon Web Service*, Google Cloud Provider

PROJECTS

Multi-AI Agent API | *FastAPI, Agno*

Retrieval-Augmented Generation System for Books | *Ollama, Llama Index, ElasticSearch*
- A fast, accurate retrieval engine, enhanced with metadata search, and an intuitive, user-friendly interface.

Image Search Engine | *DuckDB, FastAPI, PyTorch*
- A lightweight image search engine with efficient image retrievals.

Music Recommendation System | *Numpy, Pandas, Python, and scikit-learn.*
- An efficient music recommendation system with Linear Algebra.

Schedulearn | *Docker, FastAPI, Horovod, Python, SQLite*
- A lightweight deep learning scheduler that reduces make span by 50% and increased throughput by 70%.