Bijon Setyawan Raya

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EXPERIENCE

Intermediate Fullstack Developer   October 2022 – March 2024
Faria Education Group   *Taipei, Taiwan*
- Optimized file export processes, achieving a significant reduction in export time by 98.33%.
- Improved search precision and user navigation within user feeds.

Graduate Research Assistant   February 2021 – January 2023
National Tsing Hua University   *Hsinchu, Taiwan*
- Designed and developed Schedulearn, a Deep Learning scheduling system that dynamically scales to optimize training resource utilization.
- Reduced overall makespan and turnaround time by 10-50%, code base size by 50% and requirement utilization by 70%.

Teaching Assistant   Sep. 2020 – January 2023
National Tsing Hua University   *Hsinchu, Taiwan*

EDUCATION

National Tsing Hua University   Hsinchu, Taiwan
Master of Science in Computer Science   *Feb. 2021 – Jan. 2023*

National Tsing Hua University   Hsinchu, Taiwan
Bachelor of Science in Computer Science   *Sep. 2015 – Jan. 2021*

AWARDS & CONFERENCES

Ruby Kaigi 2023 | *Tokyo, Nagano*   May 2023
IEEE Cloud Com 2022 | *Bangkok, Thailand*   December 2022
Civil Internet of Things Taiwan 2017 (3rd place) | *Taipei, Taiwan*

PROJECTS

Image Search Engine | *FastAPI, PyTorch, and SQLite.*
- Allows users to upload images through a simple UI, extracts features from the uploaded images using ResNet18, and compares them using cosine similarity to retrieve similar images.

Music Recommendation System | *Numpy, Pandas, and scikit-learn.*
- Retrieved, analyzed, and pre-processed audio features of over 2000 songs from different genres using Spotify API. Then, utilized Non-negative Matrix Factorization to develop song recommendation models based on these pre-processed audio features.

AI Coding Assistant | *Ollama, Llama 3, and Python WASM.*
- Allows users to program and run Python code directly in their browser, with the added benefit of getting assistance from a LLM running in the background to help with coding tasks, debugging, and more.

Personal Website & **Klang** | *Contentlayer, Next, and Tailwind CSS.*
Schedulearn | *Docker, FastAPI, Horovod, and SQLite.*

TECHNICAL SKILLS

Languages: C/C++, Go, JavaScript, TypeScript, Ruby, and Python.
Web Frameworks: Django, FastAPI, Next.js, and Ruby-on-Rails
Containerization: Docker and Kubernetes.
Deep Learning Libraries: Keras, PyTorch, and TensorFlow.
Distributed Computing Frameworks: Horovod and PySpark.
Machine Learning Libraries: Numpy, Pandas, and scikit-learn.
Database: ElasticSearch, MySQL, and SQLite.
Others: Git and Linux/Unix