Bijon Setyawan Raya

bijonsetyawan@gmail.com

https://bsraya.com

(TW) +886966984050

LinkedIn · GitHub

New Taipei City, Taiwan

EXPERIENCE

Intermediate Fullstack Developer
October 2022 – present

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 activity feeds.
- Implement business intelligence (ETL) solutions and business rules to integrate data sources toward a centralized data store.
- Tools: ElasticSearch, MySQL, Ruby-on-Rails, and Vue.

Graduate Research Assistant
February 2021 – January 2023

National Tsing Hua University — *Hsinchu, Taiwan*

- Designed and developed a scheduling system for Deep Learning models called Schedulearn.
- Engineered Schedulearn to enable dynamic scaling in, down, out, and up, optimizing resource utilization.
- Reduced the overall makespan and turnaround time of the system by 10% to 50%, while decreasing the size of code base by 50% and the requirement utilization by 70%.
- Tools: Python, Docker, FastAPI, Horovod, and SQLite.

Teaching Assistant
Sep. 2020 – January 2023

National Tsing Hua University — *Hsinchu, Taiwan*

- Introduction to C Programming. (Sep. 2020 & Sep. 2021)
- Undergraduate Linear Algebra. (Sep. 2022 - Jan. 2023)

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

Civil Internet of Things Taiwan 2017
Third Place

National Tsing Hua University — *Hsinchu, Taiwan*

CONFERENCES

Ruby Kaigi 2023 | *Tokyo, Nagano* — May 11, 2023 – May 13, 2023

IEEE Cloud Com 2022 | *Bangkok, Thailand* — December 13, 2022 – December 16, 2022

PROJECTS

Image Search Engine | *FastAPI, HTMX, PyTorch, and SQLite.*

Music Recommendation System | *Numpy, Pandas, and scikit-learn.*

AI Coding Assistant | *Llama 2, Ollama, and Python WASM Compiler.*

Personal Website & **Klang** | *Contentlayer, Next, and Tailwind CSS.*

Schedulearn | *Docker, FastAPI, Horovod, and SQLite.*

TECHNICAL SKILLS

Languages: Go, TypeScript, Ruby, and Python.

Web Frameworks and Libraries: Django, FastAPI, Next, Ruby-on-Rails, React and Vue.

Containerization: Docker and Kubernetes.

Deep Learning Libraries: Keras and PyTorch.

Distributed Computing Frameworks: Horovod and PySpark.

Machine Learning Libraries: Numpy, Pandas, and scikit-learn

Database: ElasticSearch, MySQL, and SQLite.

Others: Git and Linux/Unix