# PHAM VU THAI MINH

Hanoi, Vietnam | Website: thaiminhpv.github.io | Phone: (+84) 38 888 8703

Email: thaiminhpv@gmail.com | Github: thaiminhpv | LinkedIn: thaiminhpv | Facebook: thaiminhpv

#### **PUBLICATION**

• Pham Vu Thai Minh, Nguyen Dong Duc Viet, Ngo Tung Son, Bui Ngoc Anh, and Jafreezal Jaafar, "RelaHash: Deep Hashing With Relative Position," in IEEE Access, vol. 11, pp. 30094-30108, 2023, doi: 10.1109/ACCESS.2023.3259104.

#### **AWARDS**

• First Prize in the ChatGPT Hackathon 2023 • Third Prize in the FPT Research Festival 2023 • First Prize in the FPT Research Festival 2022 • Third Prize in the FPT Edu Hackathon 2021 • Third Prize in the FPT Edu Hackathon 2019

## **EXPERIENCE**

Cốc Cốc Search

Data Scientist

Vietnam

• Optimized and deployed a custom transformer model on CPU with less than 25ms latency.

- Feb. 2023 Present
- Developed a chatbot that can take multiple actions and implemented on-the-fly safety regulations during streaming responses.
- Developed a retrieval-augmented text generation system, and deployed using Triton inference server on Google Cloud Vertex Al.
- Developed a large-scale newsfeed recommendation system using custom models.
- Reduced overall search latency by 23ms on CPU by implementing custom mixed precision caching to reduce float16 overhead.

# **FPT University AI Research Laboratory**

Al Researcher

Feb. 2022 - Feb. 2023

Supervisor: Professor Ngo Tung Son Feb. 2022 - Feb. 20

• Discovered and developed a new deep hashing algorithm called Relative Similarity that **establishes new state-of-the-arts** on CIFAR-10 and ImageNet datasets. • Awarded **first prize in the FPT Research Festival 2022**.

## **PROJECTS**

## **EFISS: Efficient Fashion Image Search System**

Al Engineer | DevOps

Vietnam

Supervisor: Professor Ngo Tung Son

July. 2022 - Aug. 2023

- Developed a model pipeline using fine-tuned YOLOv8, RelaHash, and ViT to efficiently retrieve images from Milvus databases.
- Used Apache Beam to batch process 7.5 million images Set up Kubernetes clusters with CI/CD in a hybrid deployment.

Doctor's Cyclop

Al Engineer

Supervisor: M.Sc. Nguyen Hai Nam

Vietnam Apr. 2021

• Developed a deep learning model that classifies the presence and correct placement of tubes on chest x-rays using UNet++.

• Top 3 FPT Edu Hackathon 2021: Using Al for image recognition - beat over 100 teams coming from various Universities.

#### **ACTIVITIES**

## AWS Academy

Educator | Lecturer Assistant

Vietnam

Technical Program Manager: Ji Cheng

Sep. 2022

- Got selected to become a lecturer assistant at AWS Academy Cloud Training Bootcamp in Vietnam by FUNiX and AWS Academy.
- Directly participated in teaching AWS Cloud Foundations class with over 800 students AWS Certified Cloud Practitioner by AWS

## JS Club - Japanese Software Engineers

Lecturer | Technical Specialist

Vietnam

- Taught Java Object-Oriented Programming to a class of 15 students for 10 weeks.
- of 15 students for 10 weeks. Mar. 2022 Sep. 2022
- Deployed Bomberman game server in a hybrid deployment for more than 120 competitors.
- Managed a team of 6 people to collaboratively deliver a scalable distributed web app within a month Set up CI/CD
- Source code: https://github.com/thaiminhpv/your-js-life

# **Developh Vietnam**

Web Developer

Vietnam

• Develop the official website for Developh Vietnam using ReactJS with Gatsby.

Sep. 2021 - Feb. 2022

• Improved page loading speed significantly by 250% by implementing server-side caching and optimizing images.

The 80% Project

Co-founder

Hanoi, Vietnam

• Presented a webinar and organized two talkshows that reached over 4,500 people on Facebook.

Jan. 2020 - Jun. 2021

The 80% Project is a non-profit organization that aims to raise community awareness about inequality between specialized and non-specialized high schools.

# **EDUCATION**

## **FPT University**

• Major: Software Engineering • Recipient of the 100% Scholarship • GPA: 8.7/10

Jan. 2022 - Aug. 2023

• Bachelor thesis: EFISS: Efficient Fashion Image Search System - Supervisor: Professor Ngo Tung Son

• Got a perfect score 10 out of 10 for the Bachelor thesis defense.

#### **FUNIX University**

Vietnam

Vietnam

• Major: Software Engineering • Merit-based Scholarship in all semesters • Cumulative GPA: 8.7/10

Dec. 2018 - Dec. 2021

## **OTHER SKILLS**

- Languages: English: 7.0 IELTS | Vietnamese: native Programming languages: Python, JavaScript, C/C++, Bash, Matlab, SQL
- Frameworks & libraries: PyTorch, HuggingFace, LangChain, TensorFlow, Pandas, FastAPI, NodeJS, ReactJS, Cython, TorchServe
- Other tools: Unix/Linux, Git/Github, Docker, Terraform, Kubernetes, AWS, GCP, Firebase, Arduino, Vercel, Nginx, DVC