Hoang N. Truong

HCMC, Vietnam

📱 (+84)949355976 | ✉ hoang@hoang.tech | ⓖ github.com/hoangperry | 🔗 linkedin.com/in/hoangntruong/

Personal Profile

I am a Software Engineer with over four years of experience. I worked in various computer science specialties such as AI, Software development, System Operation, 3D rendering and simulation, and so on.

Education

Ton Duc Thang University   *HCMC, Vietnam*
BSc in Computer Science   *2017 - 2021*

- GPA: 3.26
- Join TDTU's AI LAB as one of the first people and work here for months.
- Co-Author of a publishment at ECONVN 2021 conference, DOI: 10.1007/978-3-030-77094-5_48

Work Experience

R&D and Cooperation Department @ Hung Thinh Innovation   *HCMC, Vietnam*
Senior Specialist   *Mar 2020 - Now*

- Working at Hung Thinh Innovation, a member of Hung Thinh Corp, responsible for conducting research and developing applications for the next generation of intelligent city features.
- Collaborate with other departments to test and evaluate the features and applicability of partner solutions and technologies.
- Build several proof-of-concept versions for metaverse and 3D environment applications such as Meta-human, 3D space reconstruction, GIS, etc.
- **Technical Skills:** Pytorch, Django, FastAPI, OpenCV, Unreal Engine, Google Dialogflow, Docker

AI team @ Yedda   *HCMC, Vietnam*
Software Engineer   *Nov 2020 - Mar 2022*

- Yedda is an Israeli Artificial Intelligence Augmentation (AIA) company, that deploys Purpose-built, Plug and Play, and Tailored AI (Artificial Intelligence) and IA (Intelligence Augmentation) solutions for clients in Retail, Logistics, QSR, and other industries.
- Leader of a minor, three-person team, the responsibility is to design, build, and run automation tools for internal use and Intelligence augmentation. So, their tools and apps help employees improve their work by at least 25% and minimal mistakes on the job.
- Develop several AI services for CCTV, such as traffic counting, vault security, close contact warning, product scoring, and store supervision. These solutions assist customers in increasing security and managing product quality in their retail and manufacturing facilities. AI services are delivered in real-time, with low latency, high availability, fault tolerance, and auto-scaling across multiple compute nodes.
- My primary responsibility is managing tasks and features and engaging in research, designing, operating, and maintaining applications and systems.
- **Technical Skills:** PyTorch, Django, PostgreSQL, Jenkins, Docker, Redis, MongoDB, Selenium, OpenCV.

AI team @ DPS Solutions   *HCMC, Vietnam*
Software Engineer (Part-time)   *Nov 2018 - Nov 2019*

- DPS is a unit in the field of Information Technology that offers Operations Management services to all types of businesses. The AI team is responsible for researching and developing AI applications, as well as integrating them into company products.
- The responsibility is to implement REST-API services for AI solutions. Research, implementation, and operation
- Using modern computer vision techniques such as Object Recognition and Segmentation, develop an end-to-end Optical Character Recognition solution for Vietnamese with 0.2 CER.
- Deploy services with high availability, near-zero downtime, and auto-scalability based on the Docker container platform.
- **Technical Skills:** PyTorch, OpenCV, PostgreSQL, Django, Selenium, Docker.

HCMC, Vietnam
Software Engineer (Full-time)   *Nov 2019 - Nov 2020*

- I'm one of the key members in developing applications for face attendance checking. Face recognition algorithms that detect multiple faces in a frame and have a 98 percent accuracy rate. Almost always, registering a new face only need a single image.
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- **Technical Skills:** PyTorch, OpenCV, Apache Kafka, MongoDB, Django, FastAPI, Redis, Jenkins, GraphQL, Docker.

AI Laboratory @ Ton Duc Thang Unniversity   *HCMC, Vietnam*
RnD Internship   *Jun 2018 - Nov 2020*

- TDTU's artificial intelligence lab assists organizations with navigating the AI landscape and learning about the exciting field of AI.
- I joined the group at the beginning. I am a member of a team of five people. We are responsible for the research and development of AI solutions, including data collection and preparation, model training, concept proofing, and system development to provide AI services.
- My primary project is an OCR system that can accurately reconstruct the layout of documents.
- **Technical Skills:** PyTorch, Tensorflow, Matplotlib, Pandas, Numpy, Django, Flask, Git, Docker, LaTex, HTML CSS JavaScript

Projects

2D animated chatbot
Author

HCMC, VN
2022

- A chatbot with visuals in the form of an animated 2D character. The chatbot using a simple dialog flow management can assist the applicant in responding to clients using accessible scripts.
- The 2D chatbot is built on microservices with distinct modularity. As a result, this tool may be tweaked and enhanced for a variety of purposes.
- Furthermore, because it is based on phonemes, the lip sync controller is compatible with almost all Latin languages. This tool may be extended to work on a 3D character using some pose-bending methods.
- **Technicak skills:** Goolge Dialogflow, PyTorch, FastAPI, OpenCV, WebRTC

VISEE - Deep Image Search
Co-author

HCMC, VN
2020

- End-to-end visual search service that empower by state-of-the-art Deep Learning algorithm. It is designed for scale and stability.
- VISEE is a system that combine both full-text search and visual search (base on image) together. Our system focus on Vietnam e-commerce product, which was collected from Tiki, Lazada, Shopee, Sendo. VISEE is completely dockerization.
- **Technical Skills:** PyTorch, FastAPI, Kafka, Django, MongoDB, KeyDB, CI/CD, Milvus, ELK Stack, HTML/CSS/JS
- **Github:** https://github.com/vndee/visee

Distributed Crawler System
Co-author

HCMC, VN
2019

- Highly robust and scalable Crawler systems that design to distributed. It has a high level of credibility when parsing and analyzing information across multiple websites.
- The crawler operates in various industries, including real estate and employment. Furthermore, the scrapper is connected with dynamic rules management, so this crawler can be stretched to other sectors.
- **Technical Skills:** Selenium, Beautiful Soup, PostgreSQL, Redis, MongoDB, FastAPI, Docker, Jenkins, Apache Kafka.

Skills

Programming	• Python (Django, PyTorch, FastAPI, NumPy, Scikit-learn. Selenium, etc), Javascript, HTML/CSS, MongoDB, Apache Kafka, Redis, PostgreSQL, Docker, OpenCV
Miscellaneous	• Linux, Bash Shell, Git, Unreal Engine, Google cloud.

Side Interests

Blog Writing	• On my blog, accessible at https://blog.hoang.tech, I've written several entries, most unrelated to my professional life but representing a collection of my interests.
Music	• I appreciate it all, whether it's punk, rock, funk, or alternative. I have been playing musical instruments for more than ten years and have performed at music festivals with crowds numbering thousands of people. Since I think music has the power to bring people together, I enjoy participating in musical jam sessions with others.

Languages

English	Professional proficiency
Vietnamese	Native proficiency