

# Trung Dung Tran

Hanoi, Vietnam

☎ +84 83-218-7619 ✉ [jackson.devworks04@gmail.com](mailto:jackson.devworks04@gmail.com) <https://www.linkedin.com/in/jackson27/>  
<https://jackson2706.github.io/>

## EDUCATION

### Hanyang University ERICA

Sep 2026 – Aug 2028

*Master of Science in AI Digital Convergence (Robotics Track)*

*Ansan, South Korea*

- **Scholarship:** Awarded the fully-funded Korean Government Scholarship (KOICA-Hanyang NEXT Fellowship).
- **Focus:** Researching the integration of artificial intelligence and digital technologies, with an emphasis on robotics applications.

### Hanoi University of Science and Technology

Aug 2020-Aug 2024

*Bachelor of Science in Electronics and Telecommunications, CPA: 3.6/4.0*

*Hanoi, Vietnam*

## PROFESSIONAL EXPERIENCE

### VinUniversity

Aug 2024-Present

*Research Assistant, Teaching Assistant*

- Research Assistant on Serverless Computing (Supervisor: Associate Prof. Kok-Seng Wong).
- Research Assistant on WiFi CSI Data for Human Pose Estimation (Supervisor: Assistant Prof. Nguyen Van Dinh).
- Teaching Assistant for the “Signal and Information” Course in Spring 2025 (Lecturer: Associate Prof. Nidal Kamel).
- Teaching Assistant for the “Introduction to Programming” Course in Fall 2025 (Lecturer: Associate Prof. Kok-Seng Wong).
- Teaching Assistant for the “Digital Telecommunication” Course in Fall 2025 (Lecturer: Associate Prof. Nidal Kamel).
- Teaching Assistant for the “OOP & Data Structure” Course in Spring 2026 (Lecturer: Associate Prof. Kok-Seng Wong and Prof. Sungdeok (Steve) Cha).

### Viettel High Tech

Nov 2024-Apr 2025

*AI Engineer*

- Contributed to the ITS project at VHT, specializing in the development of logic for media filters and traffic statistics on Qualcomm hardware.
- Utilized Java programming language to design and implement these functionalities, ensuring seamless integration with the Qualcomm platform.

## VOLUNTEER

### Advanced Research & Solutions Vietnam - ARS Vietnam

Sep 2023-Dec 2023

*AI Trainee*

- Participating in the “AI Application Technology and Business” course sponsored 100% by the Japanese government, with ARS Vietnam responsible for training.

### SoICT - Hanoi University of Science and Technology

Oct 2022-May 2024

*Teaching Assistant*

- Preparing exercises for C & Python programming practice classes.
- Giving tutorials to students at practice classes.

## PUBLICATIONS

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- [1] Toan D. Gian\*, Dung T. Tran\*, Viet Quoc Pham, Francesco Restuccia, and Van Dinh Nguyen, “TinySense: Effective CSI compression for scalable and accurate Wi-Fi sensing,” in *Proceedings of the 2026 IEEE International Conference on Pervasive Computing and Communications (PerCom)*, Accepted for publication, IEEE, Mar. 2026.
- [2] Toan D. Gian\*, Dung T. Tran\*, Quoc-Viet Pham, Le-Nam Tran, and Van-Dinh Nguyen, “Multi-Modal Human Pose Estimation: A Wi-Fi-Driven Approach with Adaptive Kernel Selection,” *IEEE Transactions on Artificial Intelligence*, vol. 1, no. 01, pp. 1–14, Nov. 5555, ISSN: 2691-4581. DOI: [10.1109/TAI.2025.3631005](https://doi.ieeecomputersociety.org/10.1109/TAI.2025.3631005). [Online]. Available: <https://doi.ieeecomputersociety.org/10.1109/TAI.2025.3631005>.
- [3] Dung T. Tran, Hung Vu, Anh Tran, *et al.*, “Semise: Semi-supervised learning for severity representation in medical image,” in *2025 IEEE 22nd International Symposium on Biomedical Imaging (ISBI)*, 2025, pp. 1–4. DOI: [10.1109/ISBI60581.2025.10980996](https://doi.org/10.1109/ISBI60581.2025.10980996).
- [4] Dung T. Tran, Huyen Ngoc Huyen, Hong Nguyen, Xuan-Vu Phan, and Nam-Phong Nguyen, “Adaptive rainfall forecasting from multiple geographical models using matrix profile and ensemble learning,” in *Proceedings of the 14th International Symposium on Information and Communication Technology (SoICT 2025)*, Accepted for publication, 2025. arXiv: [2509.08277](https://arxiv.org/abs/2509.08277) [cs.LG]. [Online]. Available: <https://arxiv.org/abs/2509.08277>.
- [5] Cuong Nguyen, Dung T. Tran, Hong Nguyen, Xuan-Vu Phan, and Nam-Phong Nguyen, “Vrae: Vertical residual autoencoder for license plate denoising and deblurring,” in *Proceedings of the 14th International Symposium on Information and Communication Technology (SoICT 2025)*, Accepted for publication, 2025. arXiv: [2509.08392](https://arxiv.org/abs/2509.08392) [cs.CV]. [Online]. Available: <https://arxiv.org/abs/2509.08392>.
- [6] Dung T. Tran, Nguyen B. Ha, Van-Dinh Nguyen, and Kok-Seng Wong, *Sherl-fl: When representation learning meets split learning in hierarchical federated learning*, 2025. arXiv: [2508.08339](https://arxiv.org/abs/2508.08339) [cs.LG]. [Online]. Available: <https://arxiv.org/abs/2508.08339>.
- [7] Hong Nguyen, Dung T. Tran, Hieu Hoang, Phong Nguyen, and Shrikanth Narayanan, *Moose: Pay attention to temporal dynamics for video understanding via optical flows*, 2025. arXiv: [2506.01119](https://arxiv.org/abs/2506.01119) [cs.CV]. [Online]. Available: <https://arxiv.org/abs/2506.01119>.
- [8] Hieu Hoang, Dung Trung Tran, Hong Nguyen, and Nam-Phong Nguyen, *Cake: Real-time action detection via motion distillation and background-aware contrastive learning*, 2026. arXiv: [2603.23988](https://arxiv.org/abs/2603.23988) [cs.CV]. [Online]. Available: <https://arxiv.org/abs/2603.23988>.
- [9] Huyen Ngoc Tran, Dung Trung Tran, Hong Nguyen, Xuan Vu Phan, and Nam-Phong Nguyen, *Mp-moe: Matrix profile-guided mixture of experts for precipitation forecasting*, 2026. arXiv: [2603.25046](https://arxiv.org/abs/2603.25046) [cs.AI]. [Online]. Available: <https://arxiv.org/abs/2603.25046>.

## PROJECTS

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### **AI Camera for traffic in Vietnam** | *Python, Machine Learning, Deep Learning*

2023

AiThings Lab - Hanoi University of Science and Technology

- Developed an AI-powered camera system to monitor and analyze traffic conditions in Vietnam.
- Employed computer vision techniques and deep learning models to detect vehicles and assess traffic flow, contributing to smart city initiatives.

## TECHNICAL SKILLS

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**Languages:** English (IELTS: 6.0)

**Programming:** C/C++, Python (NumPy, SciPy, Matplotlib, Pandas, Framework: Pytorch, Django), Java, SQL

**Document Creation:** Microsoft Office Suite, LaTeX, Markdown

## REFERENCES

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### **Dr. Kok-Seng Wong**

Associate Professor, Computer Science Program

College of Engineering and Computer Science, VinUniversity, Hanoi, Vietnam

Email: [wong.ks@vinuni.edu.vn](mailto:wong.ks@vinuni.edu.vn)

**Dr. Van-Dinh Nguyen**

Assistant Professor in Networks and Distributed Systems

School of Computer Science and Statistics, Trinity College Dublin, Ireland

Email: [DINH.NGUYEN@tcd.ie](mailto:DINH.NGUYEN@tcd.ie)

**Dr. Nam-Phong Nguyen**

Assistant Professor (Lecturer)

School of Electrical and Electronic Engineering, Hanoi University of Science and Technology, Hanoi, Vietnam

Email: [phong.nguyennam@hust.edu.vn](mailto:phong.nguyennam@hust.edu.vn)