

Nguyen Thanh Tung

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Education

John von Neumann Institute, Vietnam National University Ho Chi Minh City (VNU-HCM)

MSc in Computer Science. Specialization: Information, Communication and Technologies) | 2017 – 2023 | GPA: 8.36/10.

Key modules: Linear Algebra & Optimization, Statistics, Machine Learning, Data Mining.

Thesis: Discovering association patterns between hyperglycemia and dyslipidemia in Vietnamese type 2 diabetes patients using a dataset of 19.7 million laboratory test records at the Thong Nhat hospital. The results revealed that the majority of discovered patterns which are classified as “*established*” and “*less well known*” medical knowledge can be directly confirmed with references to the biomedical literature PubMed. Discovered patterns are marked as “*unknown*” can potentially represent hypotheses and experimentation for medical research.

Ho Chi Minh City University of Technology (HCMUT)

BEng in Electrical and Electronics Engineering. Specialization: Automation | 2006 – 2011 | GPA: 7.24/10

Academic & Research Interests

- Safe Artificial Intelligence, Large Language Models (LLM) and Computer Vision for Intelligent Control Systems.

Professional Experience

Bosch Global Software Technologies Vietnam | Software Project Manager | 2022 – Present

- Led Electronic Control Unit (ECU) software development project for Diesel Engine Management System (Heavy/Medium duty vehicles), compliance with 2029 EU7 emission regulations, achieved Engine first firing milestone in 2025 for Hyundai Motor Group (HMG).
- Led ECU software development projects for Parking Assistance System (Passenger car), supported for leading Electrical Vehicle (EV) automotive client BYD.
- Have led a Vietnamese software team of 10+ and coordinated cross-functional teams in Korea, India and Germany.
- Managed full software development lifecycle using V-Model and Functional Safety ISO26262.

HELLA Vietnam | Software Project Manager | 2020 – 2022

- Built a foundational Software Solution Platform for Ambient and Interior lighting systems, 15-20% cost savings for customer projects.
- Led Interior lighting system projects in EV for customer BMW, AUDI, PORSCHE.

Bosch Global Software Technologies Vietnam | Senior Software Developer | 2014 – 2018

- Developed and validated ECU software for Engine Management System for NISSAN Light Truck.
- Provided direct customer support for software production series and query handling.

- Served as Department Quality Representative for Quality Assurance.

Bosch Global Software Technologies Vietnam | Software Developer | 2012 – 2014

- Designed, developed, and debugged a Device Encapsulation Diagnosis platform for sensors and actuators, supporting global customers.
- Authored and implemented detailed software designs, performing code quality analysis (e.g., static code analysis, unit testing) that compliance with Bosch's coding standards.

GATE Technology | Software Developer | 2011 – 2012

- Designed, developed and debugged foundational software modules of the AUTOSAR Classic Basic Software.

Technical Skills

Languages: C, Python (Pandas, NumPy, Scikit-learn), PyTorch.

Machine learning: Supervised, Unsupervised Learning, Deep Learning (PyTorch).

Automotive Systems: Ambient and Interior Lighting System, Parking Assistance System, Engine Management System.

Project Management: V-Model, Project Engineering Process (PEP), ASPICE, FMEA, 5Why/8D.

Professional Development

- Completed the Advanced in LLMs & Industry Practices module, The New Turing Institute (July/2025).
- Completed the Computer Vision module, The New Turing Institute (Nov/2025).
- Completed Enlightened Leadership Program (IPL Scholarship), PACE Institute of Management (Dec/2023 – Mar/2025).
- Completed Global Leadership Academy, SGS Academy (Nov/2022).

Technical Projects

- Ask Vietnam (RAG-based QA System): Developed an end-to-end Vietnamese history QA system using a Semantic retriever and a quantized Qwen3-4B-AWQ model; engineered the full pipeline from data crawling to a Gradio-based user interface.
- Synthetic data generation for polyp semantic segmentation: Achieved a 3% increase in segmentation accuracy for polyp detection by augmenting the DYNAFormer dataset with Diffusion-based generative models, successfully outperforming baseline and GAN-based synthesis approaches.

Scholarships & Awards

- IPL Scholarship (PACE Institute of Management) – Full scholarship for the Enlightened Leadership Program (Dec/2023).
- Luong Van Can Fund (LVCF) Scholarship – Full scholarship for postgraduate excellence (Nov/2017).