

Phuc Tran

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Summary

Software developer with 3+ years of experience and a data engineering background in pipelines, data modeling, and warehousing. Author of four published AI/ML papers and co-founder of an ed-tech platform featured in national media.

Experience

Canada Vietnam Cultural & Educational Council (CVCEC)

Software Engineer

Remote

Jun. 2026 – Present

- Co-founded a non-profit ed-tech initiative and shipped a Vietnamese-language learning platform for overseas children using React, TypeScript, Tailwind CSS, Supabase, and Cloudflare R2

MediaTek

AI Software Developer Intern

Oulu, Finland

May 2025 – Aug. 2025

- Parsed 1,000+ C source files into a machine-readable dataset of 15,000+ chunks by extracting ASTs and call graphs using Python, tree-sitter, and SQLite, feeding the downstream RAG system
- Built an agentic RAG with AutoGen and MCP, lifting LLM-judged code generation quality by 25%
- Automated LLM evaluation in GitLab CI/CD, eliminating 1 hour of manual testing per run

ALLiveSim

Research Intern

Turku, Finland

Nov. 2024 – Apr. 2025

- Deployed and benchmarked four vision-language models on NVIDIA Triton Inference Server
- Migrated the Dockerized inference stack from GCP to CSC's Puhti HPC cluster via Apptainer
- Built a pipeline scoring model captions against human annotations across 29 CLIP-categorized scenes

East Agile

Data Scientist

Ho Chi Minh City, Vietnam

Dec. 2021 – Jul. 2024

- Merged a pull request into LangChain that added a custom retriever for semantic search over data from Dropbox, Google Drive, and Slack
- Designed the data model for a Data-as-a-Service platform delivering 100,000+ financial and weather time series and six geographic reference datasets through a REST API
- Implemented and deployed Airflow ETL pipelines ingesting time series with heterogeneous formats and intermittent availability into S3, loading 500M+ rows into a Redshift OLAP data warehouse
- Cut data processing time by 75% (4h to 1h) by optimizing SQL and parallelizing workloads
- Built a full-stack enterprise GenAI platform with React and Django RESTful APIs, integrating multiple LLM providers (OpenAI, Vertex AI, Hugging Face) via LiteLLM
- Built an Airflow MLOps retraining pipeline (ARIMA, TFT, XGBoost), reducing forecasting error by 23%

Education

University of L'Aquila

MSc in Computer Science (Joint Degree with Åbo Akademi University)

L'Aquila, Italy

Aug. 2025 – Oct. 2026

Åbo Akademi University

MSc in Computer Engineering

Turku, Finland

Aug. 2024 – Aug. 2025

University of Science, Vietnam National University

BSc in Information Technology, Honors Program

Ho Chi Minh City, Vietnam

Aug. 2018 – Aug. 2022

Technical Skills

Programming Languages: Python, C/C++, JavaScript, TypeScript, SQL, Java

Libraries: PyTorch, Hugging Face, LangChain, AutoGen, MCP, sklearn, Pandas, Spark, React, Django

Tools: Git, Docker, AWS, Google Cloud Platform (GCP), Kubernetes, Airflow, MLflow, Claude Code, CI/CD

Languages: English (C1), Italian (A1), Vietnamese (Native)

Publications

- **Thanh-Phuc Tran** et al. Green Autoscaler for Performance Aware Microservices: a Machine Learning Approach. *IEEE ICSE 2026*.
- Quang-Tien Tran, **Thanh-Phuc Tran** et al. A Textual-Visual-Entailment-based Unsupervised Algorithm for Cheapfake Detection. *ACM MM 2022*.
- Tuan-Vinh La, Quang-Tien Tran, **Thanh-Phuc Tran** et al. Multimodal Cheapfakes Detection by Utilizing Image Captioning for Global Context. *ACM ICDAR 2022*.
- Tuan-Vinh La, Minh-Son Dao, Quang-Tien Tran, **Thanh-Phuc Tran** et al. A Combination of Visual-Semantic Reasoning and Text Entailment-based Boosting Algorithm for Cheapfake Detection. *ACM MM 2022*.

Media Appearances

- **VNA Media** – Interviewed as co-founder of the Online Vietnamese School [\[link\]](#)
- **Vietnam.vn** – Featured as co-founder of CVCEC's Vietnamese class in Toronto [\[link\]](#)
- **FIT-HCMUS** – Featured for the award-winning paper at ACM MM 2022 [\[link\]](#)

Honors and Awards

- **Erasmus Mundus (EMJM) Scholarship** – Two-year, fully funded; top 5% of global applicants
- **MediaTek vAward** – €500 for outstanding contribution during the summer internship
- **Winner, EDISS Winter School Hackathon** (1st of 9) – Real-time protective equipment detection using edge computing and cloud analytics
- **Consolation Prize, Euréka Award** – Nationwide award for student scientific research in Vietnam
- **Best Data-Intensive Engineering Course Presentation** (1st of 7) – Carbon-aware autoscaling and an adaptive loss function for medical image segmentation
- **Outstanding Scientific Research Student** – Awarded for the scientific contribution of the BSc thesis
- **Third Place, 48-hour AtWare Hackathon** (3rd of 10) – Led a team building a volunteer-matching web app with React, Node.js, and MongoDB