

TRAN PHAN QUOC ANH

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Education

University

Bachelor of Information Technology (Software Engineering) – HUTECH University

Expected Graduation: May 2026

Location

- Courses: Data Structures Algorithms, Database Systems, Computer Networks, Operating Systems, Software Engineering, Web Development, Object-Oriented Programming, Applied Machine Learning

Work Experience

Tech Company

Machine Learning Engineer Intern

May 2024 – Sep 2024

Location

- Engineered **Large Language Models (LLMs)**, including **BERT** and **Attention Models**, to analyze software engineering requirements and generate accurate dependency lists, improving project planning efficiency by **37%**
- Analyzed **1200+** software requirements monthly using **scikit-learn (classification models)**, **spaCy**, and **NLTK** in **Python**, saving the company **\$20,000 annually** by decreasing project lead times
- Integrated **TF-IDF vectorization** to detect similarities in software requirements, focusing on **preprocessing, model training, hyperparameter tuning** and **clustering** to optimize **NLP** analysis processes

Tech Company

Backend Engineer Intern

May 2023 – Sep 2023

Location

- Designed **30+ AWS Lambda Functions**, strategically leveraging **Lambda layers** to increase processing speed by **35%** and re-usability by **52%**, resulting in cost savings of **\$1,000** per large scale deployment
- Implemented **15+ serverless workflows** using **AWS Step Functions**, seamlessly integrating **REST APIs** and rigorously tested with **Postman**, resulting in a **65%** reduction in execution time and enhanced operational efficiency
- Crafted a **Spring Boot** application with a **Drools** logic engine, containerized it using **Docker**, and seamlessly deployed it on **AWS** using **EC2**, strategically allocating cloud resources to ensure enhanced scalability and reliability

Tech Company

Software Engineer Intern

Jun 2022 – Sep 2022

Location

- Programmed and deployed a **Python-based** data migration pipeline on **Azure**, achieving a **50% reduction** in transfer time for **100+ terabytes** of critical business data
- Centralized a **SQL** database infrastructure on **Azure**, enhancing data accessibility and security for **50+ stakeholders**, resulting in a **30% improvement** in query performance across the organization

Projects

McGill Scheduler | Website | Source Code

ReactJS | Spring Boot | PostgreSQL

- Developed and deployed a full-stack web application that enhanced academic experiences of **1,000+ McGill students**
- Utilized **PostgreSQL** for data storage, **Spring Boot** for a **RESTful API** backend, and **ReactJS** for the user interface

Empor | Website

NextJS | TypeScript | Spring Boot

- Led the development of a full-stack marketplace application for **1,000+ university students**, utilizing **NextJS** and **TypeScript** for the frontend, **Prisma** as the ORM, **Supabase** for the database, and a **Spring Boot** backend

Premier League Match Predictor | Website | Source Code

Pandas | Scikit-Learn | Python

- Created a model to predict matches, integrating **data scraping** with **pandas** and machine learning with **scikit-learn**

Leadership

SWErikCodes | TikTok | YouTube | Instagram

Jun 2023 – Present

- Created educational coding content for **75,000+** developers, with **4,200,000+** impressions per month
- Produced coding tutorials on advanced topics such as **data structures, algorithms, and software design principles**

Technical Skills

Languages: Python, SQL, HTML5, CSS, JavaScript

Developer Tools: AWS, Postman, Git, Docker, Jira

Libraries/Frameworks: Spring Boot, ReactJS, PostgreSQL, NextJS, VueJS, NodeJS