NGUYEN VAN THANH TUNG

Hanoi, Vietnam

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SUMMARY

I am an enthusiastic **Data Scientist**, driven by my strong academic foundation and passion for **Computer Science**. With 9 years of programming experience, I have actively contributed to AI research and industrial projects for 4 years, demonstrating my dedication to staying at the forefront of advancements in this field. Additionally, I have expanded my skills in developing desktop-based solutions and gained valuable experience. Continually driven by a thirst for knowledge, I am eager to apply my expertise to tackle real-world challenges. I am actively seeking opportunities to contribute to cutting-edge projects in the exciting domains of **Data Science and Artificial Intelligence**.

EDUCATION

Hanoi University of Science and Technology (HUST) — **Hanoi, Vietnam**
Bachelor of Data Science and Artificial Intelligence; CPA: 3.80/4.00 — *August 2019 - July 2023*

Ostbayerische Technische Hochschule Regensburg (OTH) — **Regensburg, Germany**
Exchange Student at Department of Information Technology — *March 2021 - July 2021*

Tran Phu Gifted High School — **Haiphong, Vietnam**
Specialized Student in Mathematics — *August 2016 - July 2019*

Stanford University — **California, USA**
Master of Computer Science - AI Specialization — *December 2022 - Present*

LANGUAGE

Vietnamese: Native
English: Proficient with a C1 TOEIC Certificate.

EXPERIENCE

Data Science Laboratory — **SOICT, HUST**
AI Researcher — *March 2021 – July 2023*
- Fields: **Continual Learning (CL), Natural Language Processing (NLP), Computer Vision (CV)**.
- Implemented State-of-the-art (SOTA) methodologies and sought ways to improve them.

VinBigData — **Hanoi, Vietnam**
Teaching Assistant — *July 2023 – August 2023*
- Teaching assistant for Talented AI Engineer training program: **Machine Learning (ML), Deep Learning (DL)**.

Shaw Software — **Hanoi, Vietnam**
Software Developer - Self Employed — *May 2019 – Dec 2022*
- Fields: **Data Scraping, Data Management, AI Engineering, Optimization, Process Automation**.
- Developed an out standing product with a monthly cash flow of 5 - 6 million $.

SKILL

Math & Basic Science
- Calculus, Algebra, Probability & Statistics
- Applied Statistics & Empirical Analysis
- Discrete Math, Optimization, General Physics

Industrial Core
- Data Structures & Algorithms
- Cryptography, Computer Networks
- Computer Architecture, Operating system
- Database, Big Data
- Object-Oriented Programming
- Machine Learning, Deep Learning
- Computer Vision, Natural Language Processing
- Business Analysis, Web Mining
- **Machine Learning Operations**

Programming
- Python, Numpy, SQL, Java, C/C++, R, Django
- Design: UML, Lucid Chart
- Scraping: Network Analyzer, API, **Selenium**, **Scrapy**
- Scikit-learn, **Pytorch, TensorFlow, Keras**
- Data Visualization: **PowerBI**, Seaborn, Matplotlib
- Big Data ecosystem: Hadoop, Spark, Kafka
- Image Processing: **OpenCV**, Pillow, Scikit-Image
- Window, MacOS, Ubuntu experienced

Working
- **Agile Software Development**, Git, AWS, Docker
- Writing: Latex
- Slide design: **Beamer**, PowerPoint
- Presentation: Vietnamese, English
- Team/independent work skills
- Efficient Googling and use of **ChatGPT**

Honors & Awards

Summer 2016	**Bronze Medal** at Vietnam National Competition in Mathematics using Casio Calculator
Summer 2017	**Gold Medal** at The competition to select excellent students in the Vietnam Coastal and Red River Delta region.
Spring 2018	**Third Prize** at Vietnam Olympiad in Informatics
Winter 2018	**Master Level** at Codeforces
Winter 2018	**First Prize (Rank 4)** at Vietnam National Free Contest Cup
Spring 2019	**First Prize (Rank 5)** at Vietnam Online National Olympiad in Informatics
Summer 2019	**Odon Vallet Scholarship**
Autumn 2019	**Top 0.07% (Rank 4/6065)** at Codeforces Contest (Round 592)
Winter 2019	**Third Prize** - The ICPC Asia Danang Regional Contest
Winter 2020	**Second Prize** - The ICPC Asia Cantho Regional Contest
Spring 2021	**OTH (Germany) Exchange Scholarship**

Outstanding Projects

Improving Rehearsal-free CRE with Within-Task Variance Awareness | *CL, NLP*　　　　**June 2023**
- Solved the Continual Relation Extraction problem.
- **EMNLP 2023 Conference** Submission.
- Archieved state-of-the-art (SOTA) results compared to multiple 2023 SOTA CRE baselines.

Automated Billing Payment Software | *API, Selenium, Proxy Server, Parallel Programming*
- Automated the payment process, minimizing manual intervention.
- Payment gateway: **Tiki Ecommerce Vietnam**.
- Monthly payments: 5 - 6 million $.

Other Projects

Name	Related Fields	Time
Automated Trading in the Vietnam Stock Market	Finance	Autumn 2023
Stock Platform (SSI) Trading Package	Finance	Summer 2023
E-commerce Platform for Clothing Sales	System Design	Summer 2023
Big Data Storage for Tiki platform	Big Data, ML, DL	Spring 2023
Tiki Scraping System	Automation	Spring 2023
Continual Learning in Image Classification	DL, CL	Spring 2023
Farm RPG	Game	Summer 2022
Analysis of Vietnam High School National Exam results	Data Science	Spring 2022
Human Pose Estimation	DL, CV	Autumn 2021
Image Generation From Limited Data	DL, GAN	Summer 2021
Stock Price Prediction	ML, DL	Spring 2021
Image Classification	DL, CV	Winter 2020
Sentiment Analysis	DL, NLP	Autumn 2020
Housing Prices Prediction	ML, DL	Summer 2020
Gmail Account Manager	Automation	Summer 2020
Bitcoin Price Sideways Breaking Signal	Statistics, Probability	Spring 2020
Vehicle Routing Problem	Optimization	Spring 2020

　　　For additional information, please check my Github (located at the top of this resume). However, please note that some industrially related projects cannot be viewed due to privacy reasons.

Reference

Ph.D. Ngo Van Linh　　　　　　　　　　　　**Hanoi University of Science and Technology**
Data Science Lab

Prof. Khoat Than　　　　　　　　　　　　**Hanoi University of Science and Technology**
Head of Data Science Lab