

VAN THANH TUNG NGUYEN

[Email](#) · [Phone](#) · [LinkedIn](#) · [Github](#) · [Codeforces](#)

Hanoi, Vietnam

Education

Hanoi University of Science and Technology (HUST)

Bachelor of Data Science and Artificial Intelligence; CPA: 3.58; Highest GPA: 3.92

Hanoi, Vietnam

August 2019 - Present

Ostbayerische Technische Hochschule Regensburg (OTH)

Virtual Exchange Student at Department of Information Technology

Regensburg, Germany

March 2021 - June 2021

Scholastic Achievements

[Vietnam Online National Olympiad in Informatics](#) | *Top 1% (Rank 5)*

2019

- The most important competition for Vietnam national high school student in the fields of computer science.

[Codeforces Div. 2 \(Round 592\)](#) | *Top 0.1% (Rank 21/27830)*

2019

- The online competition for competitive programming candidates from all around the world.

[The ICPC Asia Danang Regional Contest](#) | *Awarded 3rd Prize*

2019

- The International Collegiate Programming Contest represents the geographic area of Vietnam, Asia SE, Asia Pacific.

[Odon Vallet Scholarship](#)

2018

- Annual scholarship awarded for Vietnam national excellent students.

Experience

Data Science Laboratory

From March 2021 – Current

Research Student

SOICT, HUST

- Study Probabilistic Graphical Models: Naive Bayes, Latent Dirichlet Allocation, Gaussian Mixture Models, etc.
- Do research in the field of deep neural network in general and continual learning particular: reading papers, coding.
- With members of the research department, conduct analysis, make conclusions, and publish weekly reports.

Shaw Software

May 2019 – Dec 2022

Freelancer

Hanoi, Vietnam

- Running a small software business, developing products on desktop to serve customers' needs for data, automation.
- Coordinating members, dividing work, giving daily discussion to solve customer's problems.

Projects

[Big Data Storage](#) | *Big Data*

January 2023

- Design big data systems on cluster physical machines allows: Crawl, Store, EDA, Machine Learning Engineer, Streaming
- Frameworks: Kafka, Hbase, Hadoop, HDFS, YARN, Spark, Spark MLlib, Spark Streaming

[Analysis of Vietnam High School National Exam results](#) | *Data Science*

January 2022

- Gave detailed description of national exam scores as well as analysis of their correlation with social and economic factors using EDA and ML techniques.
- Provided a dashboard with interactive plots for better insights on the scores.

[Conditional Image Generation From Limited Data](#) | *Deep Learning*

November 2021

- Generated conditional images from a small dataset by transferring prior knowledge of a pretrained generator.

[Housing Prices Prediction](#) | *Machine Learning*

May 2021

- Built an extensible method consisting a regressor, K-means and K-NN algorithm, also used others tree-based regressor (AdaBoost, XGBoost) to predict housing prices from [the Boston Housing dataset](#).

[Bitcoin Price Sideway Breaking Signal](#) | *Applied Statistics & Experimental Design*

March 2021

- Building a signal system checks whether the Bitcoin price breakout the sideway trend (CUSUM, hypothesis testing, sliding window applied).

[Vehicle Routing Problem](#) | *Optimization*

October 2020

- Optimized vehicle routes with constraints on pick-ups/deliveries and maximum capacity using different methods (mixed-integer programming, constraint programming, backtracking, and heuristic algorithms).

Recent Products

[Automated Billing Payment Software](#) | *API, Selenium, Proxy Server, Parallel Programming*

- Paying a large number of bills requires repetitive operations which are boring and require human effort. This software allows to automate the above work and reduce number of employees using browser controller – Selenium.
- Payment gateway: [Tiki Ecommerce Vietnam](#).

Skills

Math & Science Knowledge

- Solid foundation on Math & Basic Science (Statistics, Probability, Algebra, Calculus, Discrete Math, Optimization, etc).
- Solid on industrial core foundation courses (Data Science, Deep Learning, Machine Learning, Algorithms, etc).

Programming

- Python, SQL, Java, C/C++, R.
- Design (OOP, GUI).
- Algorithms (strong knowledge).
- Data crawler (strong knowledge) by Network Analyzer, API, Selenium.
- Machine learning, deep learning (scikit-learn, Pytorch, TensorFlow, Spark MLlib).
- Data Visualization, EDA (Seaborn, Matplotlib, Plotly, Tableau).
- Big Data ecosystem (Hadoop, Zookeeper, HBase, Spark, Kafka).

Working

- Work under pressure and comfortable to work independently.
- Able to be a leader, manage work, communicate and present.
- Able to googling, asking for help.

References

Prof. Khoat Than

Head of Data Science Lab

Hanoi University of Science and Technology

M.S. Ngo Van Linh

Data Science Lab

Hanoi University of Science and Technology