

Huu-Nghia H. Nguyen

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EDUCATION

University of Science, VNU-HCM, HCMC, Vietnam | Bachelor of Science in Computer Science 2017 - 2021

- GPA: 3.95/4.0
- Coursework: Data Structures, Calculus, Linear Algebra, Applied Statistics, Discrete Structures, Logical Structures, Scientific Research Methods, Technical Writing, Mobile Application Development, Introduction to Database System, Artificial Intelligence Computational Structures, Introduction to Natural Language Processing.

EXPERIENCE

Faculty of Information Technology, University of Science, VNU-HCM HCMC, Vietnam
Research Assistant Sep. 2019 - Present

- Finding the correlation between forking patterns and software health and risks in software repositories, supervised by Dr. Vu Nguyen.
- Performing inference in the Software Heritage Dataset to extract forking patterns between 3,000 repositories using PostgreSQL and Neo4J.

Big-O Coding HCMC, Vietnam
Teaching Assistant, Problem Setter Jul. 2018 - Present

- Explaining Intermediate and Advanced Algorithms and Data Structures concepts to students at Big-O Coding on a weekly basis.
- Preparing more than 20 programming problems for Big-O Coding.

Front-end Web Developer Mar. 2019 - Sep. 2019

- Building Front-end Web Application for Big-O Coding's website: <http://bigocoder.com> to host programming problems and programming contests for up to 1,900 users using React JS.
- Reducing page traversing paths for administrators by 50% by implementing a shortcut to problems.

Pathfinder Vietnam HCMC, Vietnam
Founder, Product Team Leader, Front-end Web Developer Sep. 2018 - Present

- Leading product team of 6 in implementing the Minimum Viable Product using React JS and NodeJS.
- Introducing the product's core feature by implementing the programming testing system.

PUBLICATIONS

Towards a Robust WiFi-based Fall Detection with Adversarial Data Augmentation - TDH Nguyen, HNH Nguyen

- Zero-shot learning Fall Detection system. Accepted for presentation at the 54th Annual Conference on Information Sciences and Systems 2020. Princeton, New Jersey, USA.

Recognizing Families through Images with Pretrained Encoders - TDH Nguyen, HNH Nguyen, H Dao

- Accepted at the 2020 Recognizing Families In the Wild competition, the 15th IEEE International Conference on Automatic Face and Gesture Recognition, Buenos Aires, Argentina.

RESEARCH

BERT-FinIR: Financial Non-factoid Question Answering with BERT - TDH Nguyen, HNH Nguyen, TT Nguyen

- A Financial Non-factoid Question Answering system using BERT as the feature extractor, reaching state-of-the-art score on FiQA dataset with a MAP score of 0.888.

ACHIEVEMENTS

4th prize in Vietnam National Olympiad for Undergraduates in Informatics 2019

2nd place in University of Science VNU-HCM Olympiad in Informatics 2019

ICPC Vietnam National Round Qualifier	2019
Participant of Vietnam Summer School of Science (VSSS) '07	2019
<ul style="list-style-type: none"> Among 161 participants chosen from 1760 applicants nationwide. 	
3rd prize in VSSS Science Hackathon	2019
<ul style="list-style-type: none"> Created metrics for our mini-research about love for science. 	
4th prize Creative Idea Contest (CIC)	2019
<ul style="list-style-type: none"> Top 6 out of 200 teams. 	
Top 6 in Generation Unlimited Youth Challenge by UNICEF and Saigon Innovation Hub	2018
<ul style="list-style-type: none"> Top 6 (equal standings) out of 100 applicants. 	
Advanced Program in Computer Science Scholarship	2018
<ul style="list-style-type: none"> Top 3 out of 92 students. 	
Silver medalist in Ho Chi Minh City English Competition for Specialized Students	2017
Gold medalist in Physics in the Southern Vietnamese Regional Olympiad	2016

PROJECTS

What The Food app

- Trained a Convolution Neural Network to identify 101 types of food using TensorFlow.
- Converted the Keras model to a TensorFlow Lite model and deployed the model on an Android application using Firebase ML Kit.

SKILLS

- Languages: Python, C++, HTML, CSS, Javascript, Java, SQL, Cypher.
- Frameworks and Tools: ReactJS, Redux, Tensorflow, Android Development, Linux, PostgreSQL, Neo4J, Git.

EXTRACURRICULAR ACTIVITIES

Developer Student Club - Google Developers

- Organized a seminar to introduce students to the basics of Version Control Systems.

CERTIFICATES

- IELTS 7.0 (certified in 2019)