Hoang-Quan Tran

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Education

BSc. in Computer Science | **VNUHCM - University of Science**
Knowledge Engineering, Natural Language Processing | *2019 – 2023*
Course GPA – 8.06/10.00
Major GPA – 8.72/10.00

Thesis

BSc. Graduation Thesis | **VNUHCM - University of Science**
Address Correction based on Machine Learning, grade | *2022 – 2023*
Supervisor: Chau Thanh Duc, PhD

Languages

English: B2.1 CEFR | *VNU-EPT - 255*
Vietnamese: First language

Technical

Coding: C/C++, Perl, Python, PHP, JavaScript, Java, Julia

Scripting: bash scripts, Makefile, AutoIt

Frameworks: Laravel, Flask, Django

CI/CD: GitHub Actions, Travis CI, Azure Pipelines

VCS: git

Misc: TensorFlow 2.0, Keras, scikit-learn, Markdown, LaTeX, vanilla vim

Research Interests

Natural Language Processing: Studying some NLP problems and their application in Vietnamese: *Vietnamese Sentiment Analysis, Vietnamese Ancient Text OCR*. Some other fields include *Text Classification, Semantic Textual Similarity, Text Correction and Suggestion.*

Cryptography: Implement secure channels with some well-known algorithms: AES, RSA, ElGamal, Hill Cipher and ECC.

Software Automation: Creating Software Automation Tools with supported languages (e.g AutoIt, Perl, Bash)

Projects

School project
Chu Nom Optical Character Recognition (OCR) — 2021
Creating an Ancient Vietnamese Text (Chu Nom) Optical Character Recognition engine using CenterNet CNN and simple Digit Recognition; with TensorFlow v2 and Keras

School project
Secured Image Sharing Platform — 2021
Creating a secured image sharing platform; using AES (with CBC mode), RSA and file checksum (using SHA-256 hash)

School project
Fakenews Detection — 2022
Creating a simple web-based Fakenews Detection tool using multiple statistical ML models; data are from Kaggle Fakenews Dataset.

School project
SBERT Sentence Similarity *2022*
Creating a simple web-based Sentence Similarity Calculation tool, using pre-trained SBERT from Huggingface.

Achievements

Ben Tre Province Olympiad in Informatics **Ben Tre - Vietnam**
Consolation *2018*
5/20 pts
Ben Tre Province Olympiad in Informatics **Ben Tre - Vietnam**
3rd *2019*
10/20 pts
The ACM - ICPC Vietnam Southern Provincial **HCMC - Vietnam**
Consolation *2021*
Ranked 61th, solved 6 problems