Nhat Thi Minh Nguyen

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SKILLS & COURSEWORK

Skills: Python 3, Pandas, Numpy, HTML/CSS, JavaScript, Streamlit

Coursework: Object-Oriented Programming, Calculus I, Academic Writing, Communication

EDUCATION

University of Maryland **College Park, MD**
Letters & Sciences - Intended Major: Computer Science *June 2025*

Le Hong Phong High School for the gifted **HCMC, Vietnam**
English Major *June 2021*

- First Prize in Embedded Systems at Vietnamese Science and Engineering Fair (2020)
- Semi-finalist (Computer Science Category) at The Hong Kong Academy of Sciences - S.T. Yau High School Science Award (Asia) (2020)
- Third Prize in Biomedical Engineering at Le Hong Phong Science and Engineering Fair (2019)
- National Bronze World Robot Olympiad (2018)

LEADERSHIP EXPERIENCE

Vietnamese Science and Engineering Fair **HCMC**
Main Author of Automated potential depression flagging system on social media *July 2019- October 2020*

- Monitored time and attendance of 6 students. Organized 4 interviews with 2 doctors, 1 psychologist, and 6 university professors. Ensured quality standards are achieved continuously
- Conducted surveys that reached +800 people.

PROJECTS

Taylor Swift Word Cloud Generator

- Created an album lyric dataset from Taylor Swift's folklore and evermore album
- Used Pandas, WordCloud libraries to make Word Cloud
- Developed web app using Streamlit framework

Automated potential depression flagging system on social media

- Used Reddit's and Twitter's APIs to scrap data
- Worked on 2 models: a Convolutional Neural Network model, and a Random Forest.
- Computed evaluation metrics to analyze models' performances efficiently, leveraging 80% to a 97% accuracy rate, lowered recall value 0.6 to 0.1.
- Developed web app using Streamlit framework

DNO: MVP web app connecting recyclable trash pickers to sellers

- Created a location-based web app to suggest potential sellers of recyclable trash to buyers using Python, Pandas, Numpy, and Streamlit framework.

Tremor reducing watch for Parkinson's patients

- Made a biomedical device using Arduino applying rhythmic vibration effects through phone vibration motors to control Parkinson's patients' hand tremors.