Huy (Nick) Doan

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Education

Tufts University, Medford, MA
Bachelor of Science in Computer Science   Expected May 2024
GPA 3.89, Dean's List
Relevant Courses: Data Structures, Introduction to Software Development Tooling, Discrete Mathematics, Algorithms, Calculus, Linear Algebra

Experience

ZaloPay, *Ho Chi Minh*, Product Intern   July 2021 - September 2021
- Monitored customers' interaction with the ZaloPay application and identified problems.
- Evaluated the impact of new features through A/B testing by assessing the success rate at different steps of the application flow.
- Developed web prototype as proof of concept for new features.

CoderSchool, *Ho Chi Minh*, Machine Learning Teaching Assistant   April 2021 - June 2021
- Supported students in machine learning boot camp courses - modules include Python, data analysis, traditional machine learning, and neural networks.
- Provided technical support for students during their final projects.

CoderSchool, *Ho Chi Minh,* Data Engineer Intern   December 2020 - February 2021
- Streamlined data collection and preprocessing from Google Analytics, Facebook Marketing, Mailchimp, and Google Sheets, and stored data in Google BigQuery.
- Designed and automated a dashboard to display insights for the company.

Projects

Sorting Algorithms
- Implemented insertion sort, merge sort, quick sort, and heap sort.
- Analyzed the runtime of sorting algorithms on sorted inputs, reversed sorted inputs, randomly generated inputs, and small size inputs.

Semi-supervised Learning
- Preprocessed Fashion MNIST dataset using OpenCV and used autoencoder to extract feature vectors. The feature vectors were used by a Random Forest classifier for prediction.
- Implemented autoencoder using Tensorflow low level API.

Collision Model
- Simulated 1-dimensional collision using popular numerical integration techniques.
- Physics concepts included elasticity, friction, and momentum.
- Results were compared with ordinary differential equation integration on graphs.

Activities

JumboCode, Tufts University   September 2021 - Present
- Develop a web application for *Tufts University Prison Initiative* to help the administration to track the academic progress of incarcerated and formerly incarcerated students.

US Boarding School Conference, Chairman   2016 - 2018
- Networked with Vietnamese students studying at boarding schools in America.
- Edited student writers' content to share their experience studying at boarding schools.
- Hosted a boarding school fair every summer for 200 Vietnamese students.

Skills / Certifications

Programming Languages: Python, HTML5, JavaScript, Bash
Data Analysis: Seaborn, Matplotlib, Pandas, Numpy, SQL, Google Data Studio
Machine Learning: Scikit-learn, Tensorflow
Software Toolings: Git, Heroku
Language: Vietnamese (native), English (proficient), Chinese (intermediate)
Certifications: Tensorflow Developer Certificate, Version Control with GIT