HOANG DUC VO

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EDUCATION
University Of Houston, TX

Master of Science in Computer Science   May 2022
Cumulative GPA: 3.7/4.0

Bachelor of Science in Computer Science   December 2019
Cumulative GPA: 3.7/4.0 ; Dean's Honor List 6 semesters

SKILLS
- Operating System: Linux, Window, Mac OS
- Framework: Node Js, Django, Express, React, Flask
- Knowledge about concepts Web Services, SOA, REST APIs, Software Development Life Cycle
- Familiar IDE: Xcode, Visual Studio, VS Code, Pycharm, Eclipse
- Object Oriented programming language: C++, Java, Python
- Web develop language: JavaScript, Swift, HTML5
- Database script language: SQL, MySQL, PostgreSQL
- Cloud services: AWS, Google Cloud Platform
- Statistical language: Rstudio and mathematic concepts in Machine Learning
- Cross platform engine: Unity and C# for Augmented Reality
- Software platform: Git, Github, Oracle, SVN, Docker
- Machine learning platform: Tensorflow in deep learning and neural network
- Algorithms

CERTIFICATES
Nanodegree in Deep Learning

Udacity Machine Learning   April 2020

RELATED PROJECTS
Udemy Machine Learning

Self driving Car   July 2020
- Built a Convolution Neural Network model to train dataset of car driving records
- Wrote python code and depended on package Tensorflow, Keras, OpenCV, Socketio, and Flask to run the saved model in an available online car simulator

Udacity Machine Learning

Dermatologist AI   December 2020
- Designed an algorithm to diagnose melanoma, a form of skin cancer

Deploying a Sentimental Analysis Model   April 2020
- Built a Recurrent Neural Network Model, trained dataset, and deployed product into a website
- Applied Recurrent Neural Networks, python language, html, and AWS services like API and Lambda

Face Generating   April 2020
- Built a Generative Adversarial Network model to train dataset of pictures about faces
- Applied Generative Adversarial Network and manipulation of hyperparameters

Script Generating   March 2020
- Built a Recurrent Neural Network model to train dataset of real scripts and generate new scripts
- Applied RNNs, Long-short Term Memory Networks, and the manipulation of hyperparameters

Dog Classifying   March 2020
- Built a Convolution Neural Network model to train images of dogs and human faces,
- Built a transfer Learning network model from vgg16 to recognize and classify 133 dog breeds.
- Used the models to detect and classy new images, using Python language

Bike Sharing   February 2020
  - Built a neural network from scratch to predict number of daily bikeshare users of a business.
  - Wrote Python code to apply concepts of neural network, forward pass, and backward propagation.

University of Houston

Opacity Optimization in 3D line fields   December 2020
  - An assignment in Visualization course that required using python and visualization tools in VTK to implement a research paper.
  - Rendered 3D streamlines with different values of opacity
  - Optimized opacity value of streamlines and wrote report

Outlier detection   October 2020
  - An assignment in Data Mining course that required using python, pandas, sklearn, numpy, and jupyter notebook to find outliers in a given dataset
  - Visualized the dataset in scatterplot and built KMEANs model to fit the dataset
  - Evaluated the performance of the outlier detection model and wrote report

Data Analysis and Classification   October 2020
  - An assignment in Data Mining course that required using python, pandas, sklearn, tensorflow, numpy, and jupyter notebook to analyze dataset
  - Visualized the dataset and interpreted histogram, scatterplots, boxplots, and decision trees
  - Built neuron network model and K-nearest neighbor model to classify data, and wrote report

Decrypt message of Dr.Moriarty   December 2020
  - A practice assignment in Foundation of Security course that required using Java language to write code and decrypt a simple encrypted message
  - Applied AES block, ECB block-cipher, and CTR block-cipher mode in decryption

8THWall- Car Sales Assistant   December 2019
  - An AR App that helps car dealers and customers have reliable and convenient business deals
  - Did face-to-face interviews with car dealers and people in market segments, discussed to finalize features of the product
  - Wrote C# code , apply ARKit and Unity

Polling Station   December 2019
  - An iOS app that helps user find polling location in Texas
  - Set up database, made UI views, designed segue between UIs, wrote swift code

Texas Fuel Rate Predictor   August 2019
  - Built a website using python, flask, and sqlalchemy based on Agile development methodologies
  - Planned the project, did front-end and backend, reviewed code, added admin section, tested

Database and Management System   December 2018
  - Located entities and attributes for ER diagram, wrote ER diagram, wrote Oracle SQL codes to build a set of relational tables, added triggers and stored procedure

EXPERIENCE

Teaching Assistant   August 2019 – Present
Department of Computer Science, University of Houston, Houston, Texas
  - Explain to 100 students on concepts of database management system
  - Oversee academic projects, grade assignment papers, and check plagiarism

RELATED COURSEWORK
 Algorithms and Data Structure, Design File and Database System, Foundation of Information Security Fundamentals of Software Engineering, Fundamentals of Operating Systems, Software Design, Entrepreneurship In Computer Science, Deep Learning and Neural Network, Data Mining

AREA OF INTEREST
- Machine Learning, Data mining, Full stack, Mobile application for Android and Ios