

Hoang Vu

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EDUCATION

University of Cincinnati, College of Engineering and Applied Science - Cincinnati, OH	GPA: 3.5/4.0
Bachelor of Science in Computer Science	Expected Graduation: May 2022

EXPERIENCE

Software Developer The Innovative Clinical Data Capture and Use Lab - Cincinnati, OH	August 2019 - Present
<ul style="list-style-type: none">Developed a Python pipeline that performs the hierarchical clustering algorithm on a set of 10,000 documents.Developed clustering evaluation functions that evaluate a clustering algorithm based on a given human clustering.Developed a web interface that allows users to perform and evaluate text clustering on an uploaded file.Developed a Java library on top of Stanford's CoreNLP library that extracts coreference chains and related features from a database of 30 million medical documents.Developed a web interface to investigate the relation between extracted text features and document readability.Led a team to build a web interface that allows users to safely extract/analyze data from a database without writing SQL statements themselves.Led a team to implement a text-retrieval pipeline to retrieve medical documents for TREC-COVID and got into the leaderboard of 30 teams having the best performance nationwide.	
Research Assistant UC Professor John Franco's Lab - Cincinnati, OH	August 2018 - December 2018
<ul style="list-style-type: none">Developed the monitor for the cyber-security wargame I-Wars with Java that handles requests from clients.Rewrote the monitor code from Java into C to improve run-time efficiency.Developed a user interface with Java Swing for clients to communicate with the monitor.	

PROJECT

Phishing Email Detection	May 2019 - August 2019
<ul style="list-style-type: none">Crawled phishing emails from online sources with Python Scrapy and stored them in a MySQL database.Developed a Machine Learning model with Python scikit-learn on a database of emails to classify phishing emails.	
NightRide Navigator	January 2019 - May 2019
<ul style="list-style-type: none">Developed a Java backend algorithm utilizing Google Maps API to find the most time-saving path for a student taxi service to pick up and drop off students at multiple locations.	
VNOI Wiki	February 2015 - December 2016
<ul style="list-style-type: none">Developed the backend server written in Python Django.Developed a user ranking system based on user submissions crawled from SPOJ - an online judge website.	

HONORS AND AWARDS

ACM-ICPC	October 2015 - October 2018
<ul style="list-style-type: none">Ranked 11/211 at ACM-ICPC Asia Singapore Regional Contest 2015.Ranked 10/139 at ACM-ICPC ECNA Regional Contest 2017 (1/36 at Cincinnati Site).Ranked 7/135 at ACM-ICPC ECNA Regional Contest 2018 (1/33 at Cincinnati Site).	
Gameloft DAD AI Contest 2018 - First place	July 2018 - August 2018
<ul style="list-style-type: none">Developed an AI bot for a 5-man soccer game to compete with other contestants in an AI tournament.	
Framgia Code War - First place	April 2017 - May 2017
<ul style="list-style-type: none">Developed an AI bot for a game similar to splix.io to compete with other contestants in an AI tournament.Solved algorithm and CTF-security puzzles.	
Asia-Pacific Informatics Olympiad 2015	May 2015
<ul style="list-style-type: none">Ranked 6/15 national and 48/168 international.	

TECHNICAL SKILLS

C, C++, Python, Java, NLTK, scikit-learn, StanfordCoreNLP, Tensorflow, Scrapy, MySQL, web.py, Django, Swing, Elasticsearch, HTML, CSS, Javascript.