

Minh Quang Vu

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EDUCATION

Clark University	Worcester, MA	Expected May 2022
<ul style="list-style-type: none">Bachelor of Arts, Majors: Computer Science & Economics Minor: Data ScienceGlobal Scholar Program Overall GPA: 3.81 / 4.00 Computer Science GPA: 3.78 / 4.00 Economics GPA: 3.97 / 4.00TA for Intro to Computing and Intro to Data ScienceClark University's Dean's List, First Honor in Fall 2017, Spring 2018, Fall 2018, Spring 2019		

RELATED COURSEWORK

Data Structure • Algorithms • Linear Algebra • Data Science • Applied Machine Learning • NodeJS • Database Management • Assembly Language • Web Development (Spring 2022) • IoT (Spring 2022) • Network Security (Spring 2022) • Statistical Analysis • Macroeconomic Theory • Microeconomic Theory with Calculus • Modeling Ecologic – Economic System • Econometrics

SKILLS

- Programming Languages:** Python, C++, SQL, Java, R, JavaScript, NodeJS, HTML, CSS
- Python:** Matplotlib, Numpy, Scikit-learn, Pandas, Tensorflow, Keras (Deep Learning with DNN, CNN) , Jupyter Notebook (features engineering, hyperparameters tuning, model evaluation) , OpenCV
- Linux, Windows terminal, Git**

WORK EXPERIENCE

Software Engineer Intern (remote)	Hanoi, Vietnam	August 2021 – September 2021
Headway - EduKite <ul style="list-style-type: none">NodeJS: designed role based access control using Casbin and implemented rate limiting to reduce DDOS attack		
C++ Software Engineer Intern	Hanoi, Vietnam	February 2021 – May 2021
FPT Software <ul style="list-style-type: none">Co-lead training sessions of object oriented programming concepts in C++ for more than 10 software engineer internsImplemented the Controller component for the game of Gomoku utilizing the MVC model during trainingWorked in a team of 15 software engineers on software for a Japanese car brand, which followed the V-modelUtilized internal tools to write unit tests and integration tests		
Big Data/ Machine Learning Research Intern	Hanoi, Vietnam	August 2020 – October 2020
MobiFone Research and Development Center <ul style="list-style-type: none">Researched on the Hadoop Ecosystem and set up Hadoop Multi-Node Cluster on the company's serverReported to a group of 5 researchers on the mathematical aspect of different Machine Learning algorithms such as Linear Regression, Logistic Regression, Gradient Descent, K-means Clustering, SVM		
AI Engineer Intern	Hanoi, Vietnam	June 2020 – August 2020
iCOMM Media & Tech Jsc <ul style="list-style-type: none">Trained a DNN to decrease training time, reduce overfitting and increase accuracy up to 98.3% on the MNIST datasetText detection and recognition in natural images using OpenCV, CNN, re-trained YOLO model and some online open-source libraries and models such as EAST, EasyOCR for an AI camera product		

LEADERSHIP EXPERIENCE

Secretary – E-Board	Worcester, MA	2019 – 2020
TIE (Technology, Innovation and Entrepreneurship) <ul style="list-style-type: none">Organized meetings to strengthen the connection between STEM majorsAccompanied Clark students to compete in Datathon in Brown University, Hackathon in WPI, and Yale		

PROJECTS

Fullstack Developer	Worcester, MA	July 2021 – Present
Cougars Ask /Computer Science Honor Thesis (ongoing) <ul style="list-style-type: none">Build a RESTful web application for Clark students, professors and alumni to post questions and answers, allowing Clark community to share knowledge in a wide range of fieldsUtilize JavaScript to implement routing protocols for CRUD functions using Node.js, Express, and MongoDB databaseCreate frontends using HTML, CSS, Bootstrap 5 and HandlebarsCurrently working on an optimized way to store and search for answers and more user-friendly frontends		
Economics Capstone	Worcester, MA	July 2021 – December 2021
<ul style="list-style-type: none">Conducted research on risk management in retail banking based on various data sourcesEngaged in beginning steps to clean data, build models and extract information from Home Credit data set: Home Credit Default Risk: Can you predict how capable each applicant is of repaying a loan?Utilized matplotlib and seaborn for visualization and Stata for regression		