

# Minh Vu

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## VOLUNTARY & LEADERSHIP EXPERIENCE

### VNU University of Engineering and Technology

Hanoi, Vietnam

Participant

Summer 2022

Completed and have credits for three computer science classes at VNU University of Engineering and Technology with 8.6 GPA:

- Introduction to Information Technology
- Introduction to Programming
- Advanced Programming: Created an image recognition AI model for the HSGS Hackathon 2021 and ranked 6th - the model uses a Convolution Neural Network (CNN) to extract unique features from image data.

*Techstacks: Data structure and Algorithms, Python, CNN*

### HSGS Code Camp

Hanoi, Vietnam

Mentor

June 2021 – July 2021

- Team-working with mates from the informatics club to host online classes during COVID-19 up to 40 students each.
- Teaching secondary students introductory programming using C++ and a basic understanding of Algorithms
- The money earned from teaching was donated to the Busy Bee Friends Volunteer Group, which specializes in helping mountainous children

## PERSONAL PROJECTS

### My Portfolio:

December 2023

- A website was created to share about my lifestyle and my educational experiences. Link: <https://damianvuuu.adaptable.app/>
- Frontend developed using HTML and React.js. The website implements a search query function with all the blogs' details fetched from a database using MongoDB and saved as a hook state for sorting and filtering
- The website backend runs using Express.js Router object.
- The web React has been tested using the external package Jest, and the website was also tested using End-to-End Cypress.

*Techstacks: React, Express.js, MongoDB, E2E Cypress, Jest, HTML, CSS.*

### Books Searcher System

January 2024

- A highly scalable backend Distributed System that implements a highly accurate book-searching UI.
- The system is highly fault-tolerant running the model of one aggregator and many clusters.
- Using Apache Zookeeper to detect, by implementing Watcher, and recover the system, using customized re-elect function, when one cluster or aggregator fails
- Cluster servers communicate by HTTP Protocol. Meanwhile, the Server communicates with the front end using Google Protocol Buffer and also uses the external library Jackson to serialize and deserialize JSON data from and to UI.

*Techstacks: Java, Apache Zookeeper, HTTP Server and Client, Google Protocol Buffer*

## EDUCATION

Gettysburg College - BS in Computer Science

PA, US

- Course Certificate: Fullstack Development

Sep 2023 - June 2027

**LANGUAGES:** C++, JavaScript, Python, Java, React.js, Nodejs.

**HOBBIES:** Martial Arts, Ruby, Guitar.

