

Minh (Damian) Vu

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EDUCATION

Gettysburg College

Pennsylvania, US

BS in Computer Science - GPA 3.75/4.0

Sep 2023 - Jun 2027

- **Courses Taken:** Introduction to Computer Science 1, Object-Oriented Programming, Abstract Math, Calculus II

- **Course Certificate:** Full-stack Development (*University of Helsinki*), Distributed Systems and Cloud Computing with Java (*Udemy - Instructor: Michael Pogrebinsky*)

PROJECTS

Personal Website

Dec 2023

- Developed frontend integrating a *React* search query and backend using *Express.js* with an endpoint to *MongoDB* fetching all blogs' details
- Conducted React testing using Jest API and executed end-to-end testing utilizing Cypress framework, achieving an overall test coverage of 96.5%

Books Searcher System

Jan 2024

- Designed a highly scalable backend Distributed System that implements a book-searching UI using the *TF-IDF algorithm* to accurately rank books by their relevance
- Developed a highly fault-tolerant system running the model of one aggregator and 8 clusters, using *Apache Zookeeper* to detect and recover when one cluster or aggregator fails
- Used *Google Protocol Buffer* for communication between UI and server, and *HTTP Protocol* to communicate between aggregator and clusters

EXTRACURRICULAR ACTIVITIES

VNU University of Engineering and Technology

Hanoi, Vietnam

Participant

Summer 2022

- Completed 3 computer science classes at VNU University of Engineering and Technology alongside university students with an 8.6 GPA
- 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

HSGS Code Camp

Hanoi, Vietnam

Mentor

Jun 2021 – Jul 2021

- Taught 40+ secondary school students introductory programming using *C++* and Algorithms
- Donated \$1000 worth of profits to the Busy Bee Friends Volunteer Group, which then invested in new school supplies to help mountainous students

Toan Mo Hinh Hanoi - Math Modeling Club

Hanoi, Vietnam

Member of Human Resources and Content Department

Mar 2021 – Dec 2023

- Participated in the recruitment process for the project and organized online and offline Info Sessions Series with 15 lessons about Math Modeling for students from 13 to 17 years old
- Organized the Mathematics Modeling Contest 2022, attracted 200+ students nationwide and received sponsorship from the Vietnam Students Mathematics Community and Hanoi University of Science & Technology

SKILLS

LANGUAGES: Java, Javascript, C++, Python, HTML, CSS

FRAMEWORKS: React, Nodejs, Express.js, MongoDB, Jest, Cypress