

TUNG NGO

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Education

University of Massachusetts, Amherst

Sep. 2021 – May. 2025

Bachelor of Science in Computer Science and Applied Math

Amherst, MA

Technical Skills

Languages: Python, Java, JavaScript, Typescript, HTML, CSS, C, C++.

Tools/Frameworks: React, GraphQL, Hasura, Express, NodeJS, PostgreSQL, MongoDB, Angular, Twilio, Git, Docker.

Relevant Coursework: Programming with Data Structures, Programming Methodologies, Computer Systems Principles, Reasoning Under Uncertainty, Introduction to Computation, Statistics I, Introduction to Linear Algebra

Experience

Nash Tech, Harvey Nash

Jun. 2022 – Sep. 2022

Software Engineer Intern

Hanoi, VN

- Programmed a full-stack blog website with JWT authentication using React to visualize UI/UX, Spring Boot to run backend, and MySQL to manage the database.
- Spearheaded a team of 7 to make a property-management app ensuring 500+ NashTech authorized employees have access to the application to make requests and return hardware devices.
- Implemented the backend base for the app using Java Spring Boot, queries for MySQL, and tests by Junit test.
- Employed the UI/UX, homepages, login, and signup pages including user authentication and routing, then integrated efficient algorithms to process data from a custom REST API, so it could scale to handle 200+ requests.

UMass Amherst Machine Learning Club

Sep. 2021 – May 2022

Software Developer

Amherst, MA

- Explored about blockchain, data mining, and practical implications and theoretical underpinnings of machine learning.
- Participated in a 24-hour collaborative programming project with a team of 3 people, developing a mobile game – Block Tower, focused on health and stress relief.
- 10th/ 80 Team Overall and reached more than 800 players with the average rating of 4.9 out of 5.0.

Projects

Online Book Shopping Website Application | *MongoDB, Express, ReactJS, NodeJS.*

July 2022

- Designed a sustainable book-selling website for students.
- A full-stack online E-commerce website with 4 main options: create, read, update, and delete operations. The client side is built with React. The server is powered by Node and Express. The database is managed by MongoDB.

BlogUP, Online Social Platform | *MongoDB, Django, ReactJS.*

June 2022

- Developed and operated a free social networking platform where users can upload post, blog, and interact with friends.
- Reached over 200 content creators in the latest 3 months, with an average rating of 4.7 out of 5.0.

MyEmo, Recognition and Emotion Detection Program | *Python, OpenCV, Deep Learning*

March 2022

- Launched a recognition program to process human responses and identify the users' emotions.
- The app monitors the real-time picture to process different types of emotions through NumPy, pandas, Keras, and matplotlib libraries with numerical mathematics, data manipulation, and analysis.
- Applied machine learning technique to test against 7 different emotion datasets with an accuracy above 90%.

Leadership / Extracurricular

Algorithms and Data Structures Instructor

Sep. 2021 – Present

Supplemental Instructor

University of Massachusetts, Amherst

- Tutored 4 CS students intermediate algorithms and data structures in Java and Python; average rating of 4.8 out of 5.

The International Inventions and Innovations – Silver Medal

Feb. 2020

Team Leader

HUS High School for Gifted Students

- Served as the leader of a team of 3 to convey the original ideas, do research, collect the data, and model an innovative aquaculture system that improves the proficiency by 70%.