

Hieu Tran

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EDUCATION

University of South Florida

Expected May 2027

Bachelor of Science in Computer Engineering

Cumulative GPA: 4.0/4.0

- **Awards:** Dean's List (Fall 2023, Spring 2024), Green and Gold Director's Award (\$32,000 scholarship)
- **Courses and Certificates:** Python for Computer Vision and Deep Learning, Object-Oriented Programming, Data Structures and Algorithms, Web Development

SKILLS

Programming Languages: Python, R, C/C++, JavaScript, HTML/CSS

Data Analysis & Machine Learning: Pandas, NumPy, Matplotlib, OpenCV, Keras, TensorFlow

Web Development & Databases: MySQL, PostgreSQL, React, Node.js, Express.js, Bootstrap, RestAPI, EJS

Developer Tools: Git/GitHub, VS Code, Postman, Jupyter Notebook, MS Office

EXPERIENCE

USF Department of Medical Engineering

Apr 2024 - Present

Computer Vision Research Intern

Tampa, FL

- Developed a model utilizing **OpenCV** and **NumPy** to automate the tracking and measurement process of contracting lymph nodes in real-time environments, effectively eliminating manual work and reducing time requirements by **50%**.
- Employed **Keras** and **TensorFlow** for model training, attaining an accuracy rate of **80%** in identifying various contracting patterns of lymph nodes.

USF Big Data Analytics Lab

Mar 2024 - Present

Data Analysis Research Assistant

Tampa, FL

- Performed analysis on datasets of the 2020 US election with **Python** and **R**, analyzing over **10,000 rows** of Twitter data to identify voting trends.
- Utilized **NumPy** and **Matplotlib** to generate weekly visualizations and reports to the lab members, ensuring work progress.
- Engaged in a team of 3 to develop machine learning models using **Keras** and **TensorFlow** for predictive analytics, achieving **accuracy rate up to 90%**.

PROJECTS

Ticking Clock | *HTML/CSS, Bootstrap, JavaScript, Node.js, Express.js, Day.js, Micromodal.js, RestAPI* Apr 2024

- Crafted a user-friendly clock website employing **HTML/CSS** and **Bootstrap 5** to showcase time and date across various time zones.
- Utilized **Day.js** and **Micromodal.js** to allow user access on **10+ time zones** worldwide.
- Incorporated **WorldTimeAPI** to adjust for Daylight Saving Time based on different regions.

Convertify | *C/C++, Common Getaway Interface, Open Exchange Rates API*

Jan 2024

- Developed a unit converter program using **C/C++** with 9 different measuring units in mass, temperature, and currencies, returning the corresponding values with a **95% accuracy**.
- Deployed as a website by **Common Getaway Interface (CGI)** to enhance user interactions, and get real-time currencies data using **Open Exchange Rates API**.

LEADERSHIP

VNU-HCM High School for the Gifted

May 2021 - June 2023

IT Assistant & Admissions Guide

Ho Chi Minh City, Vietnam

- Implemented a program to analyze applicants' related data using **C/C++**, **MS Excel**, reducing the workload of admission officers by **25%**.
- **Led a team of 3** to propose a new **UI/UX** design for the portal website, resulting in a **30% increase** in engagement and positive user experience during the admission week.
- Instructed **200 applicants** and parents face-to-face on using the applicant portal to apply, edit profiles and track for exam results, receiving a **95% positive feedback**.