

Anh Tuan Huynh

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EDUCATION

University of South Florida | GPA 3.93

Tampa, Florida

B.S in Computer Science

Expected Graduation : May 2028

- **Coursework** : Programming Concepts, Discrete Structure, Machine Learning
- **Portfolio** : <https://tuanhuynhportfolio.netlify.app/>
- **Certification** :
 - [Udemy Web Development](#)
 - [Udemy 2025 Fine Tuning LLM with Hugging Face for NLP](#)
 - [MLOps Bootcamp with end-to-end ML Projects](#)

2025

2025

2025

SKILLS

Languages: C/C++, C#, Python, JavaScript, TypeScript, Dart, HTML, CSS, GraphQL,

Frameworks: Angular, Flutter, Django, React Native, TailwindCSS, Next/React.js, Node/Nest.js, Vite, Vue

Machine Learning/Deep learning: PyTorch, TensorFlow, YOLOv8, Numpy, OpenCV, CNN, MediaPipe, Hugging Face, Neural Network

Others: Git, Firebase, Vercel, Figma, SQL Sever, Arduino, Pandas, Matplotlib, AutoCAD, POVRays

EXPERIENCE

USF Rehabilitation, Robotics and Prosthetics Test Lab | Dr. Udit Halder

Feb 2025 – Now

Software Developer and ML researcher

- Developed a **neural network-based framework** for real-time **shape estimation and motion tracking** of soft robotic arms.
- Implemented **vision-based tracking** and **simulation tools** to reconstruct and visualize robot deformations using **Cosserat rod theory**.
- Optimized **robot shape reconstruction**, achieving **5x faster computation** compared to traditional models.

IT Intern | [Kite Academy](#)

May 2023 – Aug 2023

- Assisted in developing the company's official website using HTML, CSS, and JavaScript, contributing to enhanced user experience and improved site functionality by **18%**.
- Wrote, tested, and edited code for company software and applications using Python and Java, ensuring a **94%** success rate in test cases and efficient performance.
- Managed and taught programming language workshops for 30 students aged 9–15 in Python, JavaScript.

LEADERSHIP

Head of Technical Department | Canary Club

Sep 2022 – May 2023

- Projected food and merchandise sales during large-scale events, notably contributing to revenue growth of **8 million VND** through effective forecasting and technical oversight.
- Coordinated and led the technical planning of a volunteer outreach program for **50 children** kindergarten, managing logistics and facilitating the donation of folding beds and sleeping pillows valued at **700 USD**.

PROJECT

[Sign Speak](#) | Dart, Flutter, Open CV, Python

Jul 2022 – Dec 2022

An application to support communication for hearing impaired people

- Led a 2-member team to claim first place in the 2022-2023 city-level Science and Technology Innovation Competition with an application designed to bridge communication barriers for the hearing impaired
- Developed a hand gesture recognition system using **OpenCV** and **MediaPipe** in **Python**, integrated with a **Dart** and **Flutter** interface for a user-friendly experience on computers and smartphones

[Depresol](#) | Java, Python, GPT-4, Firebase

Jan 2022 – May 2022

An application chatting for depressed people on the Android operating system

- Designed and developed an Android-based chatbot application to support users with depression by providing mood assessments, personalized coping strategies, and guardian notifications.
- Integrated **Firebase** for real-time database management and user authentication, ensuring secure data handling.
- Leveraged **Brainshop.ai API** to create a responsive conversational agent for mental health assistance.

[Vaciris](#) | Python, C#, Open CV, ArcFace

Oct 2021 – Nov 2021

An application tracking if scanned person has been vaccinated against Covid-19

- Conducted research on face recognition technologies, employing **Haar Cascade** for image detection, **MTCNN** for model training, and **ArcFace** as the primary model.
- Achieved an accuracy rate of up to **90%** for a wide range of participants, with peak accuracy reaching **93%** for select cases.