

ANH TUAN HUYNH

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Education

University of South Florida

Tampa, Florida

Bachelor of Computer Science (Dean's List)

GPA: 3.93

- **Relevant Courses:** Full Stack Development, MLOps, Data Structures & Algorithms, Discrete Structures
- **Portfolio:** <https://tuanhuyhportfolio.netlify.app/>

Work Experience

USF Rehabilitation, Robotics and Prosthetics Test Lab

Feb 2025 – Present

Machine Learning Research Assistant

Tampa, Florida

- Engineered **real-time neural network** for **shape estimation** and **soft robotic control** achieving sub-10ms response times using **TensorFlow/GPU**.
- Built **computer vision** tracking system with **Cosserat rod theory** and **OpenCV**, processing deformations at **60+ FPS** with **98%** accuracy.
- Optimized **reconstruction algorithms** using **Python/NumPy**, achieving **5x faster computation** while maintaining **92%** accuracy.

Finbud AI

Nov 2024 – Present

Full Stack Software Engineer Intern

Saint Paul, Minnesota

- Led **UI/UX redesign** migrating **45k+ lines** from **Vue.js** to **Nuxt.js/TypeScript**, implementing **component-based architecture** and achieving **42%** faster load times via **SSR**.
- Architected high-performance **chatbot** utilizing **DeepSeek embeddings** with **async/await architecture**, reducing response latency by **83.76%** for **195+ concurrent users**.
- Developed **multi-modal data pipeline** integrating **OCR** and **Speech-to-Text APIs**, transforming unstructured inputs and boosting accuracy by **93.5%** through intelligent **API orchestration**.

Kite Academy

May 2023 – Aug 2023

Full Stack Software Engineer Intern

Ha Noi, Viet Nam

- Spearheaded **website modernization** using **HTML5/CSS3/JavaScript**, boosting functionality by **18%** and visitor engagement by **25%**.
- Implemented robust **testing framework** with **Python/Java**, achieving **94% success rate** across **1,300+ automated test cases**.
- Led **programming workshops** for **30 students** (ages 9–15) in **Python/JavaScript**, achieving **95% satisfaction rate**.

Projects

Quant Trading Simulator — ML Software Lead

Vue · JavaScript · Node.js · Express.js · Python · Redis

- Optimized **WebSocket data transmission** via **binary serialization**, reducing latency by **78%** from **400ms** to **90ms** for real-time market visualization.
- Developed custom **probabilistic ML model** with **scikit-learn** for trading predictions, increasing accuracy to **82%** and enabling **3.5× higher returns**.

Sign Speak — ML Software Lead

Dart · Flutter · OpenCV · Python

- Led team to **1st place** in city-level **Science & Technology Innovation Competition**, defeating **55+ teams** with real-time **gesture recognition**.
- Built **computer vision system** with **OpenCV/MediaPipe**, detecting **95+ ASL gestures** at **92.2% accuracy** in cross-platform **Flutter** application.

Leadership

Google Developer Student Club at USF — Tech Lead

Nov 2024 – Present

- Organized **technical workshops** for **50+ students** and campus-wide **hackathon** with **300+ participants** and **40+ project submissions**, achieving **98% satisfaction**.
- Developed club website using **React.js/Node.js**, increasing registration by **45%** and securing **12+ tech partnerships** worth **\$8,000 USD**.

Technical Skills

- **Languages:** C/C++, Java, Python, JavaScript/TypeScript, Dart, HTML5/CSS3, SQL
- **Frontend/Mobile:** React/Next.js, Vue/Nuxt.js, Node/Nest.js, Flutter, Redux, Tailwind CSS
- **Backend/Cloud:** Node.js, Express.js, Flask, RESTful APIs, AWS, Docker, PostgreSQL, MongoDB, Redis
- **ML/DevOps:** TensorFlow, OpenCV, Git, CI/CD, Agile/Scrum, Jest, Microservices