Van Trieu Phan

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EDUCATION

University of Central Florida Aug 2025

- Bachelor of Science in Computer Science
- GPA 3.5. Dean's List
- Coursework: Algorithms and Data Structure, Computer Logic and Organization, Processes of Object-Oriented Software, System Software, Security in Computing, Computer Architecture
- National Science Foundation S-STEM Scholar Award Fall 2023 - Present
  - *UCF/FIU/USF Flit-GAP Scholar Program*

EXPERIENCES

FIU, NSF Intern Jun 2024 – Aug 2024
Sensor Technology Developer Miami, FL

- Published research paper titled "On the Feasibility of Detecting Model Poisoning Attacks in Real-time ML-based ICS" at the 31st ACM Conference on Computer and Communications Security (CCS 2024).
- Conducted research on detecting and mitigating model poisoning attacks in federated learning for real-time navigation systems.
- Developed a Google Maps-based app that integrates ML to minimize environmental hazards along routes

FreeCast Oct 2023 – Jan 2024
Software Developer Intern Orlando, FL

- Developed deep-link schemas across multiple platforms, increasing user engagement by 20%.
- Created a robust NodeJS function/library to initiate Python web scraping scripts, enhancing data processing speed by 30%.
- Improved the efficiency of data interchange between NodeJS and Python, resulting in a 15% faster data retrieval time.

University of Central Florida Aug 2023 – Oct 2023
Learning Assistant

- Assisted students in developing effective study strategies, achieving an average 15% improvement in test scores.
- Engaged in continuous professional development to stay abreast of best teaching practices.

PROJECTS

NSF Research Mobile Application | *Java, Google Map API, Android Studio* Florida International University

- Leading the development of a navigation app that integrates with Google Maps API to provide routes that minimize environmental hazards.
- Employing machine learning to predict and display hazard levels along routes, enhancing user safety and personalization of the navigation experience.

Web Scraper | *Node.js, JavaScript, Puppeteer, Cheerio, File System, GitHub* FreeCast

- Engineered a custom website scraper to optimize the platform's deep-linking capabilities by automating content data ID extraction.
- Utilized network requests to efficiently locate and extract data, contributing to the optimization of the FreeCast platform's deep-linking capabilities.
- Enhanced data processing and transformation for deep-link creation, resulting in improved platform navigation and user experience.

Food Route | *React, Redux, Figma, Chakra UI, OpenLayer, GitHub* Morgan Stanley Code to Give, 2nd Place 2023

- Led a team of eight in developing a responsive web app to help users discover optimal dining routes, leveraging OpenLayer Maps for real-time location services.
- Integrated OpenLayer Map to visualize user locations and nearby dining choices and crafted an intuitive user interface using Chakra UI. Additionally, built a secure and reliable backend with Python for API authentication.

TECHNICAL SKILLS

Language: Java, Python, C, JavaScript, HTML, CSS, SQL, NodeJS
Framework: React.js, React Native, Chakra UI, Boostrap
Developer tools: Git, GitHub, VSCode, Android Studio, Stack, MySQL, MongoDB, Linux/Unit, AWS
Other: OOP, DBMS, Pair-Programming, Figma, Deep-link, Data Scraping, Federated Learning, FLDetector