

Thy Tran

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EDUCATION

University of South Florida

Tampa, FL

BS in Computer Science

Expected Graduation: May 2025

Relevant Courses: Data Structures, Analysis of Algorithms, Computer Organization, Database Design, FullStack Open Development, Advanced Technical Interview Prep @CodePath

EXPERIENCE

University of South Florida

Jun 2023 - Present

Research Assistant

Tampa, FL

- Developed a learning platform that enables **300** college students to watch Haptics lectures on their own schedules, achieving **81%** rating
- Built web interface from scratch by leveraging **React.js** and BigBlueButton open-source virtual classroom software used, creating a friendly and easy-to-use platform used by USF and Johns Hopkins University students
- Implemented new file uploading for the main and response videos by **Node.js** and **MongoDB**. Transformed the original **PHP** codebase into React and JavaScript

Avocademy Inc (YC W22)

Jun 2022 - Aug 2022

Software Developer Intern

Remote, FL

- Developed a dashboard to automate job application for Avocademy's students using **Next.js** and **TailwindCSS**
- Utilized web bundles to boost performance, reducing page load time by **20%** and decreasing JavaScript bundles size by **25%**
- Leveraged **Airtable REST API** to store user profiles and job records and handle **CRUD** operations

FPT Software

Jan 2021 - Jun 2021

Software Engineering Intern

Ho Chi Minh, Vietnam

- Tested a laboratory real-time monitoring web application for PHCbi built on microservices structure using **Spring framework**, identified **15 bugs** in initial testing
- Collaborated with tech lead and team to define an optimal testing approach meeting client specifications; writing test cases covering 100 percent of critical functionality across network requests, API calls and data storage
- Optimized performance and quality by reducing network requests **80%** by optimizing API calls and data queries
- Wrote test cases to verify the cross-functionality architecture met the client's requirement in 2 days; identified **6 issues** preventing full compliance of security and privacy

PROJECTS

Carbonator | Python, CosmosDB, Azure, Arduino

<https://bit.ly/44smrUm>

- Collaborated in a team of 4 to implement the smart greenhouse plant by training and analyzing machine learning models to classify the crops and plants with **85%** accuracy
- Implemented backend using **CosmosDB**, **Python**, and **Microsoft Azure** with **AdaFruit.io** to receive real-time value data from sensors. Collected **547 data samples** that fed machine-learning models to identify plant diseases
- First place team** won the State Farm's Good Neighbor Challenge at **ShellHacks**

Movie Collection | React.js, Material UI, Redux, AlanAI, Netlify

<https://bit.ly/3Ur88uQ>

- Implemented an interactive web application allowing users to search **300+** movies by category, genre, watch trailers, and view cast information
- Developed the front end with **React.js**, **Redux**, and **Material UI**
- Integrated **AlanAI** to answer questions and unique movie queries reducing user's time

Remind Me | React, TypeScript

<https://bit.ly/44qJHIL>

- Collaborated with a team of 4 to build a chrome extension that enabled users to add tasks and reminders. The extension also sent notifications reminding users to complete the tasks on time
- Implemented **React**, **TypeScript** for front-end, and stored data across browser sessions in **LocalStorage**

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS (Proficient), Java, TypeScript, Ruby on Rails, SQL

Technology/Framework: React, Node.js, Material-UI, Next.js, TailwindCSS, MongoDB, Socket.io, SpringBoot, Hadoop, MySQL

Tools: Git, VS Code, Visual Studio, Eclipse, Figma