TRUNG THANH TRUONG

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EDUCATION

Tufts University ***May 2021***

Bachelor of Science in Computer Engineering. Bachelor of Science in Computer Science

RELEVANT COURSEWORK

Algorithms, Data Structure, Programming Languages, Machine Structure and Assembly Language, Intro to Digital Logic Circuits, Electrical Systems, Electronics, Autonomous Intelligent Robots with ROS

EXPERIENCES

Tufts University - Medford, MA, *Research Assistant* ***September 2018 – Present***

- Implemented a full-stack web application that supported real-time remote interaction between users and customized Turtlebots for Tufts University's Autonomous Intelligent Robots (AIR) Lab

Finsify JSC - MoneyLover - Hanoi, Vietnam, *Software Engineering Intern* ***June 2018 – August 2018***

- Implemented new Vue.js front-end features (including customized search bar and budgeting window) for the MoneyLover web-application to enhance user experience
- Maintained and reorganized Express backend API and Redis sockets for easier accessibility

FPT Information System - **Hanoi, Vietnam,** *Software Engineering Intern* ***May – June 2018***

- Designed a Salesforce cloud-based application for the Vietnam Maritime Commercial Bank to provide professional management tools for the marketing and sales team

Jay Pritzker Academy - Siem Reap, Cambodia, *Robotics Instructor* ***July – August 2016***

- Led a group of 8 students to deliver lessons on basic robotics and engineering process at the Jay Pritzker Academy, an institution founded for gifted scholars in impoverished rural areas of Siem Reap

PROJECTS

MoneyLover clone – *Individual summer project* ***June 2018***

- Re-implemented a popular money management app using Vue.js frontend, Express and MongoDB backend, and Passport.js for authentication for educational purpose

Tufts Telepresence Turtlebot – *Final project @Autonomous Intelligent Robots* ***May 2018***

- Created a ROS-based telepresence robot that has autonomous maneuvering functionality using AMCL localization, SLAM gmapping, and can be controlled over the Internet using rosbridge WebSockets

IOT House – *Best new-comer project @Tufts Polyhack hackathon* ***October 2017***

- Created a house model that has real-time facial recognition functionalities, and can be controlled over the Internet using an ESP32 board

3D-printed Robotic Blimp – *High school senior project* ***April 2017***

- Designed the user-interface and the 3D-printed frame of an Arduino-based robotic blimp that has face and color tracking ability using OpenCV

SKILLS

- Programming languages: C++, C, Java, Python, JavaScript, HTML, CSS
- Web-dev tools: Vue.js, Bootstrap, jQuery, Node.js, Express.js, Feathers.js, Adonis.js, Puppeteer.js, Firebase
- Databases: MongoDB, MySQL, PostgreSQL
- Hardware experience: integrated circuits designing, power system, embedded microcontrollers, 3D-printing
- Fluent in Vietnamese, proficient in Spanish, elementary in Chinese

OTHER ACTIVITIES

Tufts Club Basketball, Tufts Robotics Club, Tufts Vietnamese Student Club, Computer Science Exchange, MakeHarvard Hackathon, Hack@Brown Hackathon, WMFO Radio Station Co-host, Resident Assistant