Phuoc (Joseph) Tran

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PROGRAMMING EXPERIENCE

Recurse Center

Participated in a 12-week software engineering retreat, during which I pair programmed and collaborated with other programmers on several projects

January 2021 - March 2021

Recurse Store

A mock e-commerce platform for Recurse Center participants and alumni – React.js, GraphQL, PostgreSQL, Node.js

- Implemented OAuth 2.0 to allow users to sign-in using their Recurse Center accounts
- Set up secure environment for transactions using Stripe's API
- Architected GraphQL API endpoint with create, read, update, and delete operations
- Scaffolded and organized client interface into reusable components using React.js and Material-UI

Iruka

An educational, open-source project featuring classic data structures and algorithms with over 600 stars on GitHub – TypeScript, Jest

- Contributed searching and sorting algorithms, including comments explaining implementation details as well as time and space complexities to help learners
- Tested all algorithms with Jest, maintaining 100% test coverage

MIT Biomimetic Robotics Lab Website

The official website for the MIT Biomimetic Robotics Lab – React.js, TypeScript

November 2020 – January 2021

- Rebuilt the lab's website with React.js and Material-UI to create a modern, responsive user interface and improved user experience
- Provided extensive documentation so that graduate students without web development experience can update the site
- Implemented continuous integration using GitHub Actions, automatically running unit tests for all new changes

WORK EXPERIENCE

Teaching Assistant

The Summer Science Program

June 2020 – July 2020 Remote

- Instructed 36 high school students in Python programming, college math, and astrophysics, culminating in an asteroid orbit determination research project

Military Project Engineering Intern

Williams International

May 2019 – August 2019 Pontiac, MI

- Collaborated with aerospace, electrical, and mechanical engineers on other teams to integrate all components of a gas turbine engine
- Created Python scripts to automate the processing and plotting of large sets of data in the engine acceptance test procedure, reducing the task from hours to seconds

EDUCATION

University of Notre Dame

Bachelor of Science, Aerospace Engineering

2016 – 2020 GPA: 3.74/4.00

LANGUAGES

Python | TypeScript | JavaScript | C/C++ | Java | MATLAB

SKILLS

HTML | CSS | React | Node.js | Express.js | MongoDB | GraphQL | SQL | Jest | Git | Unix | LaTeX

COURSEWORK

University of Notre Dame:

- C/C++ Programming
- Intro to Artificial Intelligence

Coursera/edX:

- UCSD Data Structures
- Stanford Algorithms I
- Georgia Tech Intro to Object-Oriented Programming with Java

HONORS

- Sigma Gamma Tau Aerospace Engineering Honor Society
- Dean's List, 2017 – 2020
- Boeing Scholar
- Asian Pacific Islander American Scholar
- QuestBridge Scholar

ACTIVITIES

- U. of Notre Dame Class of 2020 Commencement Planning Committee Member, 2020
- Aerospace/Mechanical Engineering Teaching Assistant, 2019-2020
- Building Bridges Peer Mentor for First Year Engineers, 2019-2020
- Vietnamese Student Association President, 2019