

TIM YANG

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Education

University of Central Florida

Bachelor of Science in Computer Science

Anticipated: May 2023

Orlando, FL

Experience

Lockheed Martin College Work Experience Program (UCF)

Orlando, FL

Software Engineering Intern

Oct 2021 - Current

- Developed and maintained platform integration C++ code used to incorporate various critical services and programs.
- Developed unit test using GoogleTest. Wrote cohesive, well encapsulated, and loosely coupled code to have unit testable code.
- Utilized CI/CD in GitLab to automate integration, testing, analysis, development and created pipeline job to automate package creation/updates.
- Managed ZeroMQ socket connections utilizing ZeroMQ API to enable subscriber-publisher communication. Created Mock ZMQ publisher to test successful message publication.
- Performed code and design reviews that guaranteed higher code quality and help others understand new methods and technologies. Evaluated merge requests before approving merge to production.

Northrop Grumman (Space Systems)

Roy, UT

Software Engineering Intern

Jun 2022 - Aug 2022

- Applied Python to develop a tool to improve a multi-sensor system's track alignment by collecting, cleaning, analyzing JSON data and calculating bearing variance of longitude and latitude points.
- Worked on building a new React component for a security user interface, which implemented GeoJSON objects onto a Leaflet.js map.
- Investigated different methods to solve ongoing issues, promote efficiency and reliability, and created a research report to inform the team of the findings.

Northrop Grumman (Aeronautics Systems)

Melbourne, FL

Software Engineering Intern

Summer 2019 - 2021

- Optimized hardware testing by implementing Simics into the testing stage by version controlling the install and minimizing memory consumption of Simics.
- Modified Python test scripts to operate with a Simics target instead of physical hardware, optimized hardware testing by testing on any Linux machine instead of 11 adu and edu boards.
- Designed a GUI with Vue.js that provided a frontend interface that allows users to interact with a map and sends user inputted data using HTTP/REST/JSON to a web server.

Projects

GasUp 🐙 [Website Link](#) 🐙 [Github Link](#) | *React Native, Node.js, Express.js, Expo.io, Mapbox.js*

April 2022

- Attended ShellHacks 2022 Hackathon and won the challenge: Best Sustainability Hack by AvanaDe.
- Mobile application that encourages carpooling by allowing users to easily split the cost of gas for a given trip.

Feather 🐙 [Github Link](#) | *Angular.ts, Ionic, Firebase*

April 2022

- Hybrid interactive dairy app made for users to share, collaborate, and discuss diary entries others.
- Diary entries could be composed of text, videos, photos, links, and code snippets.

Pl/0 Compiler | *C programming*

March 2022

- Employed C language to create a P-Machine, Lexical Analyzer, Recursive Descent Parser, and an Intermediate Code Generator, combining the parts with a compiler driver.

Technical Skills

Languages: C, C++, Java, HTML/CSS, JavaScript, TypeScript, Python

Developer Tools / Technologies: Git, Ionic, Angular, React, React Native, Firebase, MySQL, Unix/bash

Leadership / Extracurricular

KnightHacks

Fall 2022 – Present

Projects Director

University of Central Florida

- Overlooked 25+ teams to ensure team were on track and offered advice, guidance, and resources to be successful.
- Allocated over 100 students to a team based on experience, interest, and availability.
- Coordinated with other directors and officers to plan meetings, workshops, events, and Knighthack annual hackathon.