



Work experience

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Teachers Assistant for Software Engineering

08/2019 – present

University of Florida, Gainesville, FL

- Led discussion sections of around thirty students through the AGILE process and how to work with the MERN stack of technologies
- Assisted a UF doctorate professor with managing student groups in class
- Reviewed and graded student code submissions
- Moderated and participated in an online forum for students to ask for help

Software Developer Intern

05/2018 – 08/2018

Perspecta (Originally Vencore), Melbourne, FL

- Participated as part of a team in an AGILE focused environment
- Worked closely with Junior and Senior developers to learn how to write code that followed professional guidelines
- Worked on upgrading an aging framework to a more modern modular system.
- Communicated with representatives from the U.S. Air force to clarify tasking and goals.

Education

Computer Science

08/2017 – present

University of Florida, Gainesville, FL

- Participated in the UF Open Source club as both a member and an officer. This included working on open source projects such; a club website implementing the MERN stack of technologies, a python based bot for the social app Discord, and a game which was created in the Unity game engine.
- Worked on projects for major classes which involved working with the android kernel, using virtual machines, taking advantage of security vulnerabilities to better understand them, creating a c++ device driver and virtual memory manager, and various other c++ and Java based projects.

Associate of Arts

06/2015 – 05/2017

Eastern Florida State College, Melbourne, FL

Projects

Open Source Club Website (React.js, Node.js)

University of Florida Open Source Club

- Worked as project lead and helped to update documentation and project direction
- Spearheaded the initiative to convert the site from a vanilla js one to a React.js site
- Helped to implement user authentication with JWT and Redux

Discord Bot (Python)

University of Florida Open Source Club

- Developed a command to clear channel messages in any given discord channel
- Contributed to a command to create vote polling
- Contributed to github integration with the bot and discord channels

Encrypted Socket Messenger (Python)

University of Florida Computer Information and Security

- Developed a console to console socket messenger
- Implemented Diffie-Hellman key exchange with AES-256 message encryption
- Implemented a HMAC using SHA-256 for message authentication

Virtual Memory Manager (C++)

- Implemented a linked list of nodes to be used to simulate memory blocks on a system
- Setup a system which prevented external fragmentation for the memory allocated