Ryan McPherson

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Education

Bachelor of Science in Computer Science *August 2020 - Present*

University of Florida, Gainesville, FL

GPA 3.81/4.0

Relevant Coursework

- COT3100 Applications of Discrete Structures *Spring 2021*
- COP3530 Data Structures and Algorithms *In progress*
- MAS3114 Computational Linear Algebra *In progress*

Notable Projects

Assignment Notion Database *September 2021*

- **Tools:** JavaScript, Node.JS | **Repository:** assignments-but-automated
- Constructed script to automatically retrieve 100+ assignments from Canvas LMS and post them to a Notion database
- Executed GET and POST HTTP requests through REST APIs using public SDKs

Portfolio Website *July 2021*

- **Tools:** HTML5, CSS3, JavaScript | **Repository:** ryan-mcpherson-portfolio
- Developed and designed a portfolio website to display my projects and contact information
- Implemented features including responsive design, form submission, and animations

Minesweeper *December 2020*

- **Tools:** C++, SFML | **Repository:** minesweeper-clone
- Recreated popular retro game Minesweeper with user-friendly GUI using object-oriented programming
- Implemented features including displaying score, win/loss conditions, and developer assistant buttons

Image Manipulator *October 2020*

- **Tools:** C++ | **Repository:** image-manipulator
- Implemented multiple image blending modes for TGA files including screen, overlay, separate, combine, add green, flip 180 degrees, and quad combine
- Wrote 13 unit tests to ensure each blending mode functions as intended

Involvement

Software Engineering Club (SEC), *Technical Lead* *September 2020 - Present*

University of Florida, Gainesville, FL

- Developed in a team of over 15 developers on Clubfinity, a mobile app build using the MERN stack
- Collaborated with a group of 5 developers to build the “forgot my password” feature

STEM Summer Institute, *Mentor* *May 2018 - June 2018*

Western High School, Davie, FL

- Mentored over 30 young aspiring STEM students in basic engineering concepts

Skills

- **Programming Languages:** C++, JavaScript, HTML5, CSS3, Java, MATLAB
- **Frameworks**: React
- **Software:** Git, Node.JS, Postman, Affinity Designer