

# 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

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## Relevant Coursework

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

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## Notable Projects

### Assignment Notion Database

September 2021

- **Tools:** JavaScript, Node.JS | **Repository:** assignments-but-automated
- Constructed a 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
- Implemented features including displaying score, win/loss conditions, and developer assistant buttons using object-oriented programming

### 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

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## Involvement

### Software Engineering Club (SEC), Active Member

September 2020 - Present

- University of Florida, Gainesville, FL
- Assist in development of club software projects
  - Strengthen communication skills in group projects

### STEM Summer Institute, Mentor

May 2018 - June 2018

- Western High School, Davie, FL
- Mentored 30+ young aspiring STEM students in engineering concepts

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## Skills

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