

Ernesto Roja

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EDUCATION

University of Florida, Herbert Wertheim College of Engineering,
Bachelor of Science in Computer Science, Graduation: May 2024

- Specialization: Software Engineering, Minor: Digital Arts & Sciences
- **GPA: 3.79**

PROJECTS

SubScribe, FIU Hackathon, ShellHacks 2022 (Sep. 2022 – Present)

- A web application that tracks and manages monthly and yearly subscriptions.
- Designed and implemented all accessible pages: login/register, home, and add.
- Applied JavaScript to store and manage user registration information using a map ADT.
- Written in HTML, CSS, and JavaScript.

Pathfinder Visualizer (Jun. 2022 – Aug. 2022)

- A program that helps users visualize various pathfinding algorithms in action.
- Implemented BFS, DFS, Dijkstra, and A-Star algorithms for visualization.
- Created an interactive GUI for users to visualize the algorithms working in real-time.
- Implemented features that aid in board customizability, functionality, and responsiveness.

Minesweeper (Mar. 2022 – Apr. 2022)

- Minesweeper game written in C++ and uses the SFML library for GUI implementation.
- Implemented core game mechanics: revealing and flagging tiles, mines, win/lose conditions.
- Implemented features that aid in functionality testing, game customization, and performance.

Portfolio Website (Mar. 2022 – Apr. 2022)

- Implemented core website sections: home, about, experience, projects, and contact.
- Written in HTML, CSS, and JavaScript.

RELEVANT EXPERIENCE

MEMBER | SOCIETY OF SOFTWARE DEVELOPERS (Spring 2021 – Present)

- Led the design and development of a mobile application that keeps track of member attendance.
- Contributed to a web application by building the user interface with ReactJS.
- Contributed to the development of interactive GUIs for group projects used in competition.

MEMBER | ASSOCIATION FOR COMPUTING MACHINERY (Fall 2021 – Present)

- Created, organized, and supervised group activities during numerous semester events.
- Mentored new first and second-year students in creating efficient and reusable code.

MEMBER | SOFTWARE ENGINEERING CLUB (Fall 2021 – Summer 2022)

- Contributed to a Twitter clone by using ReactJS to create an interactive live feed of posts.
- Contributed to an online retail mobile application by managing user information using SQL.