

# Devin Arena

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## EDUCATION

### Florida Gulf Coast University

Bachelors of Science in Software Engineering  
Minor in Mathematics

- President's List - 4 time recipient

**August 2019–Present**

Graduation: December 2022

Fort Myers, Florida

Overall GPA: 4.0/4.0

## WORK EXPERIENCE

### Florida Gulf Coast University

Teaching Assistant - General Chemistry I and General Physics II

- Assisted the professor in teaching students concepts of General Chemistry I and General Physics II

**January 2020–Present**

Fort Myers, Florida

### Florida Gulf Coast University

Physics Research Assistant - Dark Matter Phenomenology

- Studying simulations involving the production and effects of dark matter
- Working on and maintaining university Windows and Linux machines
- Updating current models using C++
- Automating MadGraph, MadAnalysis, and other tasks using Python

**December 2020–Present**

Fort Myers, Florida

## TECHNOLOGIES AND LANGUAGES

- Languages: Java, C++, C, C#, Dart, Python, Javascript, TypeScript, HTML, CSS
- Technologies: Git, SQL, SQLite, Flutter, Node.js, React.js, Next.js, Linux, Windows
- Coursework: Data Structures & Algorithms, Data Engineering, Operating Systems, Software Security, Networking

## PROJECTS

### UseRoux

**October 2021–Present**

- Developed a Javascript web application to walk users through solving a 3x3x3 speed cube using the Roux method.
- Utilizes Three.js to build an interactive speed cube in 3D space.
- Loads solve data from JSON files and allows users to navigate through each step.
- Provides functionality for speeding up and slowing down steps and walking through each rotation.

### AppTracker

**August 2021–September 2021**

- Developed a React web application to catalog internship and job applications.
- Stores company name and notes about the company and tracks interviews, offers, and rejections.
- Stores data in local storage and allows users to import or export their current application data as JSON.

### ProductLog

**June 2021–August 2021**

- Created a cross-platform mobile application using the flutter SDK.
- Documents user purchases through entering a UPC, scanning a barcode, or simply adding the product.
- Product information is stored in a local SQLite database can be looked up, searched by name or tag, and sorted.

### Minesweeper AI

**December 2019/September 2021**

- An implementation of a minesweeper AI written in pure Javascript.
- AI determines the best move to make based on a probability map generated using real minesweeper tactics.

### Pixel Striker

**May 2021**

- A mobile arcade-style soccer game developed using the Godot game engine.
- Contains multiple game modes including free kicks, penalties, and goalie mode.
- Integrates with Google Play Games Services for leaderboards and achievements.