Devin Arena

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EDUCATION

Florida Gulf Coast University   **August 2019–Present**
Bachelors of Science in Software Engineering   Graduation: December 2022
Minor in Mathematics   Fort Myers, Florida

- President's List - 4 time recipient   Overall GPA: 4.0/4.0

WORK EXPERIENCE

Florida Gulf Coast University   **January 2020–Present**
Teaching Assistant - General Chemistry I and General Physics II   Fort Myers, Florida

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

Florida Gulf Coast University   **December 2020–Present**
Research Assistant - Dark Matter Phenomenology   Fort Myers, Florida

- Studied simulations involving the production and effects of dark matter
- Worked on and maintained university Windows and Linux machines
- Updated current MadGraph and MadAnalysis models using C++
- Automated MadGraph and MadAnalysis simulation software with Python

TECHNOLOGIES AND LANGUAGES

- Languages: Java, C++, C, 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 | Node.js, Javascript, HTML, CSS, Three.js   **October 2021-Present**

- Developed a web application to walk users through solving a 3x3x3 speed cube using the Roux method
- Utilized Three.js to build an interactive speed cube in 3D space
- Implemented ability to easily save and load solve information from JSON files

Pixel Background | Node.js, React, Electron, Javascript, CSS   **December 2021**

- Designed and built a desktop application using React and Electron to save and pixelate images from Reddit
- Implemented functionality for saving multiple images and setting the user's wallpaper
- Added functionality for saving user settings using JSON files

AppTracker | Node.js, React, Javascript, CSS   **August 2021–September 2021**

- Developed a React web application to catalog internship and job applications
- Utilized JSON and localstorage to persist company names, notes, rejections, interviews, and offers
- Used media queries to allow for responsive design on many machines

ProductLog | Flutter, Dart, SQLite   **June 2021–August 2021**

- Created a cross-platform mobile application using the flutter SDK to track purchases
- Implemented a local SQLite database for saving user and product information
- Integrated a system for scanning and looking up products based on names or barcodes

Minesweeper AI | Javascript   **December 2019/September 2021**

- Built an AI for solving Minesweeper puzzles using vanilla JavaScript
- Implemented real Minesweeper tactics for solving complex puzzles