Devin Arena

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I am a student and developer interested in backend development.

WORK EXPERIENCE

Florida Gulf Coast University   Spring 2020–Summer 2020
Teaching Assistant - General Chemistry I   Fort Myers, Florida

- Aided the teacher in explaining complex concepts in Chemistry
- Assisted students with difficult assignments and reviewed for exams during office hours

Florida Gulf Coast University   Fall 2020–Winter 2020
Teaching Assistant - General Physics I   Fort Myers, Florida

- Aided the teacher in explaining complex concepts in Physics II
- Assisted students with difficult assignments and reviewed for exams during office hours

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

- Studying simulations involving the Big Bang and the effects of dark matter
- Working on and maintaining Linux machines to run the simulations
- Using custom software to analyze the data from simulations
- Writing scripts to automate the process of analyzing and executing simulations

EDUCATION

Florida Gulf Coast University   2019–2023
BS, Software Engineering   Fort Myers, Florida
Minor in Mathematics   GPA: 4.0/4.0

- President's List (4.0 GPA) - 3 time recipient

TECHNOLOGIES AND LANGUAGES

- Languages: Java, C++, C, C#, Javascript, Dart, Python, HTML/CSS, AVR Assembly
- Technologies: MySQL, SQLite, Git, Flutter, Android Studio, Bootstrap, Node.js, LibGDX, Ubuntu/Linux, Arduino
- Coursework: Data Structures and Algorithms, Software Engineering Fundamentals, Object Oriented Programming, Intro to Data Engineering, Programming Methodologies, Computer Organization and Assembly Language, Requirements Engineering, Software Security

PROJECTS

- **Production Project -** A full scale production project with database integration, employee login system, product line and production log functionality. Uses Object Oriented programming practices.
- **Telegram Message Counter** - A desktop application that utilizes BeautifulSoup to scrape and analyze a set of Telegram messages exported from the Telegram desktop app. Displays the number of messages per month and year on a bar plot or line plot using tkinter and matplotlib.
- **Minesweeper AI -** An implementation of a minesweeper AI written in pure javascript. The AI determines the best move to make based on a probability map for each tile.
- **Tic-Tac-Toe AI -** An implementation of a tic-tac-toe AI written in pure javascript. The AI determines the best move to make based on the minimax algorithm.
- **Arduino Traffic Light -** A program written for an ATMega328 Arduino microcontroller using AVR Assembly, simulates a traffic light with a crosswalk button using 4 LEDs, a push button, a breadboard and an ATMega328 microcontroller.