Michael Medina

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Github: https://github.com/mikematics22800
Portfolio: https://mikematics22800.github.io/mikematics

Summary

Self-taught and formally educated software engineer with life-long passion and dedication for scientific study. Effective at combining creativity and problem solving to develop user-friendly applications. Known among peers for strong wit and attention to detail no matter the complexity of the project.

Work Experience

Company: Apple | **Role:** Genius | **Duration:** 2018 – Present | **Location:** Boca Raton, FL
Description: Working with customers face to face to provide in-depth product analysis, cost-effective solutions that meet their needs, and friendly hands-on technical support for device troubleshooting.

Education

School: Palm Beach State | **Location:** Boca Raton, FL | **Duration:** 2018-2022
Degree/Certification: Associate of Arts
School: University of Central Florida | **Location:** Remote | **Duration:** April-September 2024
Degree/Certification: Full Stack Web Development Boot Camp Certificate

Applied Knowledge

Syntax and logic in languages including Python, JavaScript, and C++ | Efficient ways to store and manipulate data, such as arrays, linked lists, trees, and sorting/searching algorithms | Understanding the hardware components of computers, including CPUs, memory, and storage, and how they interact with software | How operating systems manage hardware resources, processes, and memory | Principles of database design, SQL, and how to manage and query relational databases | Methods and practices for designing, developing, testing, and maintaining software systems | Basics of computer networking, including protocols, IP addresses, and data transmission | Introduction to AI concepts, algorithms, and practical applications of machine learning | Fundamentals of protecting computer systems and data from security threats and vulnerabilities.

Technical Skills

JavaScript | HTML | CSS | React | Node | Python | C/C++ | SQL | Java | PHP

Projects

Cryptomatics
Repository: https://github.com/mikematics22800/Cryptomatics
Live Application: https://mikematics22800.github.io/Cryptomatics
Description: A web client that displays real time data on the cryptocurrency exchange, including detailed information on the top 100 ranking coins in the market.
Languages/Tools: JavaScript | React | Tailwind CSS | Material UI | Chart.js | Rapid API

Weatherboy
Repository: https://github.com/mikematics22800/Weatherboy
Live Application: https://mikematics22800.github.io/Weatherboy
Description: A web client that displays current weather conditions and forecasts for the user's current location and cities across the world. The user can query cities using a search bar with autocomplete functionality. Additionally, the app includes an interactive map which displays satellite derived weather data across the globe.
Languages/Tools: JavaScript | React | Tailwind CSS | Material UI | Chart.js | Leaflet
OpenWeather API | Google Maps API

Atlantic Hurricane Database
Repository: https://github.com/mikematics22800/Atlantic-Hurricane-Database
Live Application: https://atlantic-hurricane-database.onrender.com
Description: A web service that sends JSON arrays representing tropical cyclone activity in the Atlantic basin of any year since 1851 provided by URL parameters. I converted raw text data from the National Hurricane Center into JSON format using a Python script which you can view at https://github.com/mikematics22800/Hurdat2-Compiler.
Languages/Tools: JavaScript | Express | CORS | Python | Anaconda

Cyclopedia
Repository: https://github.com/mikematics22800/Cyclopedia
Live Application: https://mikematics22800.github.io/Cyclopedia
Description: A web application that displays data on tropical cyclone activity in the Atlantic basin since 1851, fetched from the Atlantic Hurricane Database I created. An interactive map displays detailed track information for every tropical cyclone recorded each year, along with charts which display various statistics for each storm individually and the year cumulatively.
Languages/Tools: JavaScript | React | Tailwind CSS | Material UI | Chart.js | Leaflet