Matthew Sand

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Education

University of Central Florida | 3.0 GPA   **Expected Graduation 2025**
College of Engineering and Computer Science

Suncoast Community High School | 3.27 / 4.2 GPA   **Graduated 2021**
Math, Science, and Engineering Program and Computer Science Program

Relevant Courses: *AP Computer Science 1, IB Computer Science, Java Databases, Intro to C, Computer Science 1, Computer Design and Architecture*

Skills

Certifications: ICT Essentials: Databases, Multi-Media, Game Design, Web Design, Graphic Design
Proficiencies: MacOS, Windows, UNIX, Node.js, Git, JQuery, Websockets
Programming Languages: HTML, CSS, JavaScript, SQL, PHP, Python, Java, C, MATLAB

Projects

Programming Homework Submission and Testing System   **March 2020**
- Constructed website for students to write and test their code from home during Coronavirus
- Designed and implemented interface using flow charts capable of dynamically highlighting parts of user submitted code
- Created a php based file directory for students to save or upload their code to
- Used SQL database to store encrypted user login info and keep track of user tokens

WIFI Hotspot Locator   **February 2021**
- Utilized the Google Maps API to display markers and WIFI hotspots around the user
- Created SQL based database of WIFI hotspots using the Open Maps API
- Designed interface for interacting with, and displaying information from, the service's database of hotspot information

Computer Remote Control App   **April 2021**
- Created a PWA based application to allow the running of custom scripts on a user's computer from the push of a button on their phone
- Designed and implemented dynamic interface for user to create custom actions and have their corresponding buttons display on screen
- Utilized Node based websockets to allow for sending of button press information on user's phone app to be sent to a companion app on the user's computer

WikiHow Article Guessing Game   **January 2022**
- Constructed website that has the user attempt to guess what article from the website WikiHow a random image corresponds to
- Created Python script to randomly retrieve articles, and their corresponding images, and save them in a standard JSON format
- Implemented a SQL database to keep track of overall user scores and high scores

Competitions

Hack Suncoast Hackathon   **January 2020**
Lead in the design and construction of personal pet website to incentivize students to complete work

Palm Beach Tech Hackathon   **October 2020**
Participated in creation of website for bone marrow donors to anonymously communicate with their donatee

Blueprint / HackMIT Hackathon   **February 2021**
Lead the creation of website to display a database of nearby free WIFI hotspots

GameDev Knights Gamejam   **October 2021**
Assisted in the design and programming of mechanics of horror game

Leadership

Student Government Association (SGA)   *Secretary, Vice President, Logistics Coordinator*
Science, Engineering, Communication, Mathematics, and Enrichment Club   *Team Lead*
Space Exploration and Engineering Club   *Vice President*
STEM10   *Design Manager*