Matthew Sand

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Work Experience

SightPlan, *IOS Software Development Engineering Intern*   **October 2022 – Present**
- Work in agile development style to plan, design, and implement new features
- Utilize xCode to write and debug code
- Implement design using objective C, Swift Storyboards, and Swift UI

Amazon, *Software Development Engineering Intern*   **Summer 2022**
- Designed and constructed mobile React application to collect and test audio data
- Learned and contributed to AWS Lambda backend, maintained service and trained others on service
- Implemented feature on upcoming robotic assistant to create timelapse of location

Education

University of Central Florida | 3.2 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: *Java Databases, Intro to C, Computer Science 1, Computer Design and Architecture, Object Oriented Programming*

Skills

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

Projects

Computer Remote Control App   **November 2022**
- Designed and Constructed React Native based mobile application to display and send commands to computer
- Utilized a locally hosted webserver to receive and send data between mobile and desktop applications
- Created Electron desktop app to receive and create commands

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

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

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

Competitions

KnightHacks Project Competition   **November 2022**
- Lead the creation of and app to run actions on a computer from a phone

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

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

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

Leadership

KnightHacks   *Project Team Lead*
Student Government Association (SGA)   *Secretary, Vice President, Logistics Coordinator*
x **Space Exploration and Engineering Club**   *Vice President*
STEM10   *Design Manager*