Matthew Sand

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Work Experience

Amazon, *Software Development Engineering Intern [Alexa AI Optimization Team]* **Summer 2023**

- Designed and implemented dynamic storage scaling for AI training platform utilizing Shell Scripting, CloudFormation, and Lambda Functions
- Worked with AWS services to preform rolling deployment of new EC2 based service to over 6,000 users
- Wrote scripts in NodeJS for data aggregation, sanitation, and analysis

SightPlan, *IOS Software Development Engineering Intern* **October 2022 – April 2023**

- Worked to research and implement apple accessibility standards into iOS application
- Utilized xCode to write and debug production iOS code
- Implemented design using objective C, Swift Storyboards, and Swift UI

Amazon, *Software Development Engineering Intern [Amazon Astro Team]* **Summer 2022**

- Designed and constructed mobile React-based application to collect and test audio data
- Learned and contributed to AWS Lambda backend, maintained service and trained others on service
- Implemented feature on Amazon Astro to create timelapse of location utilizing proprietary scripting language

Education

University of Central Florida | 3.2 GPA *College of Engineering and Computer Science | Minor In Mathematics* **Expected Graduation Spring 2025**

Relevant Courses: *Intro to C, CS1, CS2, Computer Design and Architecture, Object Oriented Programming, Discrete Structures*

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

Relevant Courses: *Java Databases, AP CS A, AP CS B*

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, xCode

Programming Languages: HTML, CSS, JavaScript, SQL, PHP, Python, Java, C, MATLAB, Swift

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 over LAN

WikiHow Article Guessing Game **January 2022**

- Constructed website that has the user attempt to guess what article from an 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

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 a react native app to run actions on a computer remotely and won second place

GameDev Knights Gamejam **October 2021**

Assisted in the design and programming of mechanics of Unity based horror game

Blueprint / HackMIT Hackathon **February 2021**

Lead the creation of website to display an SQL 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 / UX Team Researcher*

Student Government Association (SGA) *Secretary, Vice President, Logistics Coordinator*

Space Exploration and Engineering Club *Vice President*

STEM10 *Design Manager*