Matthew Sand

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Work Experience

Amazon, *Software Development Engineering Intern [Alexa AI Optimization Team]*   **May 2023 – July 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 based 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]*   **June 2022 – August 2022**
- Designed and constructed mobile React-based application to collect and test audio data for 100 testers
- 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 / 4.0 GPA *College of Engineering and Computer Science | Minor In Mathematics* **Expected Graduation Spring 2025**
- **Relevant Courses:** *CS1, CS2, Computer Design and Architecture, Object Oriented Programming, Discrete Structures, Algos For ML, Mobile Software Dev, Senior Design*

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

Projects

StoryForge   **September 2023**
- Utilized ChatGPT api to keep track of game story, world, and statistics
- Created JavaScript Canvas based reactive animations based off states passed by ChatGPT
- Worked with team in SCRUM system to create tickets, assign tasks, and work collaboratively.

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
- 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

ShellHacks Hackathon   **September 2023**
- Participated in the creation of a Chat-GPT based AI tabletop simulator

KnightHacks Project Competition   **November 2022**
- Won second place while leading the creation of a react native app to run actions on a computer remotely

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

Blueprint / HackMIT Hackathon   **February 2021**
- Lead team in the creation of a website to display a 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 / Design System Team Lead*
Google Developer Student Club   *Technical Lead*
Design & Code   *Event Coordinator / Web Development. Team Lead*