

Matthew Sand

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Work Experience

- Amazon, Software Development Engineering Intern [Artificial General Intelligence Team]** **May 2024 – August 2024**
- Implemented system to securely copy files into distributed computing cluster.
 - Modified an EKS based system with over 1,500 active customers.
 - Worked with distributed S3 buckets to ensure global coverage.
- 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 perform 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

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*