

Jacob Sage

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Education

University of Central Florida

B.S. Computer Science

August 2018 – May 2022

GPA: 3.54

Skills

C, C#, CSS, Git, HTML, Java, JavaScript, Python, React, React Native, Redis, SQL

Experience

Google

Incoming Software Engineer

Start Date: August 2022

Boulder, CO

- On the Google Cloud Apps team

Amazon

Software Development Engineering Intern

May 2021 – August 2021

Irvine, CA

- Utilized React to create an internal dynamic data visualization and diagnostic web tool
- Created five REST API using Flask in Python
- Created an SQL query parser to construct data structures out of raw data contained in Amazon S3 Buckets
- Stored the transformed data in Redis, an in-memory database

EC-Council

Machine Learning Engineering Intern

June 2020 – August 2020

Tampa, FL

- Created software that, based on user activities within a competition, can predict the time required for future users to complete competition challenges

Esaote North America

Freelance Software Engineer

October 2019 – November 2019

Tampa, FL

- Created software in Python that reformats patients' files in mass quantity to aid the company's transition into newer equipment

Notable Projects

Autonomous Rover Python [In progress]

- A rover capable of autonomously returning to launch site after deployment via mid-flight rocket
- Handling the computer vision aspect of the project (object detection, pathfinding)

StockHub React Native

- A mobile stock market simulator that allows the user to practice trading with the use of real-world prices
- Developed the Login, Signup, Account, and Portfolio pages of the mobile app

Maze Solver Python, PyGame

- A program that allows the user to draw a maze out of a grid and uses a search algorithm to direct Toby, the in-app character, through the maze

Compiler C

- Created a recursive descent parser that converts input from a pseudocode-like language, SimpleC, into LLVM IR machine code
- Able to parse functions, if-statements, variable assignment/declaration, and regular expressions