

# Jacob Sage

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## Education

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### University of Central Florida

B.S. Computer Science

August 2018 – May 2022

GPA: 3.54

## Skills

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

## Experience

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### Amazon

May 2021 – August 2021

*Software Development Engineering Intern*

Irvine, CA

- Full-stack Engineer on the Amazon Fresh team
- Single-handedly created an internal data visualization tool utilizing React to create the front-end, Redis to create an in-memory database, and Python to create APIs and interact with the database
- Created an SQL query parser to fill the Redis database

### EC-Council

June 2020 – August 2020

*Machine Learning Engineering Intern*

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

October 2019 – November 2019

*Freelance Software Engineer*

Tampa, FL

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

## Notable Projects

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### StockHub React Native

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

### Maze Solver Python, PyGame

- Built 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

## Leadership

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- Moderator on UCF Computer Science Discord which connects **over 7,000 students** to various forms of academic assistance such as course group chats and tutoring
- Past Club Officer for the University's Artificial Intelligence club with **over 950 members** in which I led team projects and research paper discussions