Jacob Sage

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Education

University of Central Florida Expected Graduation: May 2022
B.S. Computer Science w/ Minor in Mathematics GPA: 3.56
Enrolled in the Accelerated Computer Science M.S. program
Leadership: Club Officer for the University's Artificial Intelligence club (AI@UCF) w/ **over 850 members**

Skills

Languages: Python, C, Java, C#, C++, JavaScript, HTML, CSS
Frameworks: NumPy, pandas, PyTorch, Unity, PyGame, React.js

Experience

Fitak Integrative Genomics Laboratory, UCF September 2020 – Present
Undergraduate Researcher Orlando, FL

- Will perform computational analysis and implement Machine Learning models to detect patterns in billions of samples of bird DNA

EC-Council June 2020 – August 2020
Machine Learning Engineering Intern Remote

- 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

Super Smash Bros. RL Python

- Leading a five-person team to make a reinforcement learning agent for Super Smash Bros. Melee
- Accessed the emulator's program memory to obtain relevant information on the game state

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-game character) through the maze

Visa Job Finder React.js, JavaScript, JSX, Node.js, HTML, CSS

- Handled the front-end development of a website used to help immigrants find work based off of their visa
- Created for a group project at SwampHacks (University of Florida hackathon)

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

Relevant Academics and Coursework

Algorithms and Data Structures I/II, OOP, Discrete Mathematics, Statistics, Calculus I/II, Physics I/II