

# Jacob Sage

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## Education

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### University of Central Florida

B.S. Computer Science

Clubs: AI@UCF

August 2018 – May 2022

GPA: 3.53

## Relevant Academics and Coursework

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Calculus I/II, Algorithms and Data Structures I/II, OOP,  
Systems Software, Discrete Mathematics, Statistical Methods,  
Computer Structure and Organization

## Skills

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Languages: Python, Java, C, JavaScript, HTML, CSS

Frameworks: React.js, PyGame

Libraries: NumPy, Pandas, Scikit-learn, Keras

## Experience

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### Esaote North America

October 2019 – November 2019

*Contract Work*

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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**Visa Job Finder** React.js, JavaScript, JSX, 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).

**SimpleC Compiler** C

- Created a recursive descent parser that converts input from a pseudocode-like language, SimpleC, into LLVM IR machine code.

**Breast Cancer Predictor** Python, Pandas, Scikit-learn

- Used machine learning to predict whether a form of breast cancer is malignant or benign based on characteristics such as clump thickness and the uniformity of the cell's shape and size.

**Pong** Python, NumPy, PyGame

- Created Pong to familiarize myself with the PyGame framework.
- Currently attempting to make an AI learn how to play Pong through the use of deep reinforcement learning.