

Jacob Maxson

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Education

Ohio State University

Major: BS Computer Science & Engineering

Minor: Business

Expected Graduation: May 2022

GPA: 3.9

Dean's List

Technical Skills

Programming: Java, C, C++, C#, Python

Web Development: HTML/CSS, JavaScript, jQuery, ReactJS

Miscellaneous: Unity, ASP.NET Core, SQL, MATLAB, Excel, Word

Projects

Chess AI:

April 2019—December 2019

- Created back-end API in C# which used an alpha beta search algorithm and customized evaluation to create an AI for chess. Designed front-end using ReactJS and jQuery.

Snake AI:

June 2019—August 2019

- Developed a neural network to create an AI for the arcade snake game. Network had 9 input neurons, 2 hidden layers, and 4 output neurons. Implemented a genetic algorithm to train the AI. Coded in Python.

Personal Website:

October 2019—November 2019

- Developed a mobile-friendly personal website from scratch which features multiple themes and effects. Website was made with pure HTML/CSS and JavaScript functions.

Robot:

January 2019—May 2019

- Constructed and coded a robot to navigate an obstacle course. Modeled complete robot in Solidworks. Entered the official OSU Robot Competition and placed 3rd overall, receiving a cash prize. Coded in C++.

Penny Football:

April 2018—May 2018

- Recreated a functional game of penny football with the Unity editor while using custom graphics. Scripts were written in C#.

March Madness Predictor:

December 2019—Present

- Designed a web scraper to retrieve statistics of college basketball teams. Linear regression was used to predict a march madness bracket based on the statistics of the teams competing. Coded in Python.

Other Experience

Shadowing

May 2018

- Shadowed a Lead Applications Developer at Kent State University.
- Gained 30+ hours of field research experience focused on web development.

Extracurricular Activities

- AI Club August 2018—Present
- Algorithm Club August 2019—Present
- GRE Math Tutor March 2018