

Brian Ventura

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EDUCATION

University of California, Irvine | *B.S. in Computer Science*

Expected June 2022

- GPA: 3.4/4.0
- Relevant Coursework: Discrete Mathematics, Linear Algebra, Data Structures, Design and Analysis of Algorithms, Information Retrieval, Machine Learning, Artificial Intelligence

SKILLS

- Coding Languages (*Proficient*): Python, Javascript
- Coding Languages (*Familiar*): Java, C++, React.js
- Software and Tools: VSCode, PyCharm, Firebase, MySQL, MongoDB

PROJECTS

Group Memories | *Web Application created with React and MongoDB*

August 2021 - present

- Designed a full stack web application designed to create and share posts and images, providing features allowing users to manage groups for post visibility
- Currently designing the layout of the application, applying css knowledge and Semantic UI to create an overall better user experience

Tetris Clone | *Pygame Application* | <https://github.com/brianv212/tetris>

June 2021

- A clone of the popular game, Tetris, remade using Pygame, modeled closely to accurately mimic traditional game mechanics
- Implemented four different game modes to further expand upon regular Tetris gameplay

Covid-19 Simulator | *Web Application created with React* | <https://github.com/brianv212/covid-sim-1>

March 2021

- Created a React web application to inform users of the dangers of disease spread, maintaining a simple design and presentation of the concept to appeal to a wide range of audiences
- Collaborated with two teammates over the course of one weekend, assigning tasks and following a waterfall model to utilize our skills and time

Checkers AI | *Python Application*

January - March 2021

- Produced a proficient AI to play checkers against AIs of different skill levels
- Modeled the AI using Monte Carlo Tree Searching, which further applied understanding of traversal methods, backpropagation with node scoring, and optimal game simulations
- Achieved win-rates of 85% and 60% after running matches against “Average” AIs and “Good” AIs, respectively

WORK HISTORY

7 Leaves Cafe

July 2019 - Present (Seasonal)

Team Member | San Jose, CA

- Demonstrated cooperation and communication skills with coworkers, which contributed to positive team environments
- Efficiently took orders, made drinks, and served over 200 customers each shift

OTHER SKILLS AND INTERESTS

Languages: English (Fluent), German (Elementary proficiency)

Interests: Video Editing, Playing Musical Instruments, Baking, Web Design