George Doujaiji

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EDUCATION

Oregon State University | B.S. in Computer Science (GPA: 3.9) *April 2023 - Present*

- Relevant coursework: Discrete Mathematics, Web Development

University of Central Florida | Computer Science *Jun 2020 - Dec 2022*

- Relevant coursework: Data Structures and Algorithms, Object Oriented Programming, Calculus II, Systems Software, Intro to Programming with C, Computer Logic & Organization

Certifications

- Supervised Machine Learning by Stanford Online (Coursera)
- Intro to Machine Learning (Kaggle)
- Intro to SQL (Kaggle)

SKILLS

Expert: Python, Data Structures and Algorithms, Terminal/Shell
Proficient: API, Git, Unix/Linux, Systems design, Object Oriented Programming, Web scraping
Familiar: Machine Learning, Deep Learning, TensorFlow, SQL, JavaScript, C, C#, SCRUM
Interpersonal: Communication, Teamwork, Bilingual (Arabic and English), Inquisitive, Passionate

WORK EXPERIENCE

Programming Tutor at Wyzant.com *Sep 2020 - May 2021*

- Delivered ongoing personalized 1-on-1 Python sessions to 11 students, both online and in-person, improving their understanding of Python, which is reflected in my 4.9-star rating.

PROJECTS

Minesweeper-Solver

- Recreated the classic game of Minesweeper in Python, engineering an intuitive GUI.
- Developed a bot using advanced graph theory principles and self-designed algorithms, effectively emulating human gameplay, solving 100% of deterministically solvable boards.

Shape Classifier Convolutional Neural Network

- Built and trained my first neural network to identify drawings of basic shapes using convolutional layers, achieving an accuracy of 98.6% on the test set.

Spotify-QuickSave

- Engineered a modular and adaptable application integrating Spotify's API, allowing users to instantly save the currently playing song to their library and specified playlist.
- The robust system design allowed easy swapping of components, which allowed me to seamlessly integrate a Raspberry Pi connected circuit with buttons to handle the app's input.

Pathfinding Visualizer

- Interactive program to visually demonstrate well known pathfinding algorithms, such as A*.
- Allows users to draw the traversable map with barriers and observe the algorithms in action.

Spotify Trees

- Python-based tool leveraging the Spotify API to manage and organize playlists in a tree structure. Successfully handles over 3,000 songs across ~80 playlists.