Justin Sanchez
sanchej@umich.edu • (917)-743-4125 • 1030 Fox Street, NY 10459
https://justinsanchez.vercel.app/

EDUCATION

University of Michigan   **Ann Arbor, MI**
Bachelor of Science in Engineering in Computer Science   *August 2023*

Coursework: Applied Computational Machine Learning, User Interface Development, Database Management Systems, Informational Retrieval and Web Search, Software Engineering

Honors: Dean's Honor List

WORK EXPERIENCE

ZT Systems   **Seacaucus, NJ**
AI Systems Failure Analysis Engineer   *September 2023 - Present*
- Helped build, diagnose, and debug servers for shipment while simultaneously teaching other technicians how to best fix servers both in factory and at various data centers.
- Maintained and worked on a plethora of server designs as well as handled data related tasks department wide.
- Invoked my expertise in Python and Excel to create custom and novel solutions to tricky problems and help create reports on project health.

PROJECT EXPERIENCE

Financial Literacy Website   **Ann Arbor, MI**
Lead Developer   *September 2022 - December 2022*
- Designed a website using basic front-end tools to create a user-friendly interface to make our project accessible.
- Integrated a constantly updated stock data API to send GET requests to receive and analyze data as well as present relevant articles related to given requested stocks.

Reinforcement Learning Euchre Bot   **Ann Arbor, MI**
MDST Team member   *January 2023 - April 2023*
- Learned reinforcement learning and key algorithms including Temporal Difference and Monte Carlo methods.
- Incorporated reinforcement learning to develop a bot to win at the game "Euchre" in order to apply our teaching.

Sudoku Solver   **Ann Arbor, MI**
Lead Developer   *March 2023 - September 2023*
- Created a Sudoku solver that takes inspiration from Monte Carlo algorithms to solve them with Python.
- Created a front-end website to input the proper Sudoku puzzle information to make the input process more accessible.
- Learned and utilized Flask to communicate the Python program's parameters and output to the website.

RESEARCH EXPERIENCE

College Sports Data Management   **Ann Arbor, MI**
Lead Database Manager   *September 2018 - April 2019*
- Led my research group in extracting data from financial data reports using Adobe Acrobat and Microsoft Excel.
- Identified and analyzed outliers to investigate potential errors, develop explanations, and formulate possible conclusions.
- Presented the group's findings at a project symposium where we discussed the benefits of our research and demonstrated the usefulness of our database to facilitate easy research in college sports financial data.

SKILLS

Programs/Libraries: Microsoft Office, Pandas, Numpy, Tensorflow, Scikit-learn, PowerBI, Advanced Excel, NodeJS
Programming Languages: Python, C++, C, Java, Javascript, HTML, CSS, Flask, SQL, Solidity, React, jQuery

ACTIVITIES

Super Smash Bros Club, *Member*   *September 2023 – April 2023*
Michigan Data Science Team, *Member*   *January 2023 – April 2023*