

Justin Sanchez

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EDUCATION

University of Michigan

Bachelor of Science in Engineering in Computer Science

Ann Arbor, MI

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: Microsoft Office, MATLAB, Quartus, GIS, XOJO, Adobe Photoshop, Adobe Premiere, Google Suite, 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