

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, Advanced Micro Devices

Secaucus, NJ

AI Systems Failure Analysis Engineer

September 2023 - Present

- Helped to build, diagnose, and debug servers for shipment while teaching other technicians how to fix servers in factories and at various data centers.
- Was project lead for a high-priority and cutting-edge new product while managing a team of about 15+ to complete over 200 shipments and troubleshoot novel and unique errors.
- Helped coordinate with various departments as well as develop vital documentation to enable product development.
- Invoked my expertise in Python, Tableau, and Excel to create custom solutions to tricky problems and help create reports on project health as well as summarize analysis for persisting issues.

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.

CERTIFICATIONS

Coursera

New York, NY

Google Advanced Data Analytics Professional Certificate

November 20, 2024

- Honed my skills with Python to use pandas, sci-kit learn, and other libraries to analyze and visualize data insights.
- Learned how to use tableau effectively in conjunction with statistical concepts to better understand and highlight key potential anomalies in large data sets or using data to properly convey an idea or claim.
- Applied machine learning concepts and tools like decision trees and gradient boosting to make accurate models.

SKILLS

Programs/Libraries: Microsoft Office, Pandas, Numpy, Tableau, Scikit-learn, PowerBI, Advanced Excel, NodeJS

Programming Languages: Python, C++, C, Java, Javascript, HTML, CSS, Flask, SQL, Solidity, React, jQuery

ACTIVITIES

Michigan Data Science Team, Member

January 2023 – April 2023