

JOSE D. HERNANDEZ

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EXPERIENCE

Data Security and Privacy Intern

Health Plan One (HPOne)

12/2021 - Orlando, United States

Sales/Marketing organization in Medicare and health insurance market

- Worked directly with CISO and Senior Security Engineer to ensure company alignment with security laws (HIPAA).
- Monitored data protection and compliance through Office 365 Security as company uses Microsoft Office products.
- Researched and collected data for company initiatives such as: Market analysis or specific projects.
- Provided administrative assistance to Legal Team on numerous projects.

Mathematics Teacher

Osceola County School District

02/2021 - Ongoing - Kissimmee, FL

- Developed and instructed educational content for over 150 students including notes, tests, and assignments.
- Prepared periodic progress reports of all student performance and organized educational activities/events.
- Created weekly Statistics & Geometry lesson plans for mathematics department required by the District and DOE.
- Demonstrated consistent classroom/time management skills for an effective learning environment.
- Instructed individual/custom lectures for students with disabilities and non-native speakers.
- Ensured my classroom remained a safe and conducive learning environment.

Para-Professional ESE

Osceola County School District

2021 - Ongoing - Kissimmee, FL

- Perform instructional tasks and classroom responsibilities to assist teaching staff.
- Assist teachers with students that have disabilities in class sizes over 75.

EDUCATION

M.S Mathematics

University of Central Florida

08/2021 - Ongoing - Orlando, FL

- Emphasis on advanced Financial Mathematics, Programming and Data Analysis.

B.S Statistics / Minor Mathematics

University of Central Florida

2017 - 04/2021 - Orlando, FL

A.A General

Valencia College

08/2014 - 12/2016 - Kissimmee, FL

SKILLS & TOOLS

Python R Microsoft Excel Tableau Data Analysis

Advanced Mathematics Jupiter Notebook

Data Visualization Machine Learning SQL Statistics

Anaconda PyCharm

PROJECTS

Automated Debt Management Program

Ongoing

Python program that automatically creates a report for individuals visualize/manage their debt for free.

- Although the website is still in the testing phase, the program will run on a website and take in customer data from questions related their monthly income, expenses, and debt.
- Generates an in-depth report/solution on how to remove their debt.
- The report automatically creates visuals of their expenses compared to their income, and generates a time plot using an algorithm I developed to determine the most optimal solution.
- Tools: Python Programming, Jupyter Notebook, Excel, Mac Numbers.

Stock Market Prediction Using ML/AI

Literature review covering Machine Learning algorithms used to predict stock price.

- Elaborated on the K-Nearest Neighbors (KNN) algorithm and its ability to learn from quantitative/qualitative data inputs to provide a quantitative output variable.
- Proofs for equations used in algorithm such as: Euclidean Distance, Ridge Regression, and Root Mean Square.
- Description of studies with accuracies of 80% when using this algorithm.

Personal Stock Analysis

Analysis of my trading techniques using a 100k paper money account by TD Ameritrade.

- Recorded my trades of five individual stocks Monday-Friday for an entire month to determine accuracy of my techniques.
- Reached a 4.8% profit for the month of February, and developed an SLR to conclude my 70.53% success rate.
- Tools: Python Programming, Jupyter Notebook, Excel.

COVID-19 Survey Analysis

Analysis on individuals' knowledge about COVID-19 and Social distancing.

- Constructed and distributed an in-depth survey to see if there was a correlation in individuals knowledge on COVID-19 and the types of social distancing precautions they would perform.
- From a 300 random sample survey, I found correlations within individuals such as: # of times their hands were washed ~ If they practice social distancing, Number of times people leave their home per week ~ knew if they lived in a COVID-19 hotspot.
- Tools: Python Programming, Jupyter Notebook, Excel.