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SAMUEL POMAJEVICH

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Skills

Tools and Languages Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, SciPy), SQL, Git, HTML/CSS, MATLAB, JavaScript, PHP

Data Analysis Data Wrangling, Data Visualization, Data Modeling, Statistical Methods, APIs, Excel

Education

The University of Texas at Austin, GPA: 3.58/4.0 **May 2021**

Bachelor of Science in Physics, Computation Option

Relevant coursework: Computer Programming, Software Design, Web Programming, Probability, Linear Algebra and Calculus

IBM Data Science Professional Certificate **2021 — Present**

Relevant coursework: Python for Data Science, Data Analysis, Databases and SQL, Data Visualization, ML and AI with Python

Professional Experience

Vehicle Subsystem and Operations Engineer - NASA, International Space Station **July 2021 — Present**

NASA Safety and Mission Assurance Contract/Oakwood University *Houston, Texas*

- Responsible for maintaining the safety of all astronauts aboard the International Space Station (ISS) by identifying and quantifying potential risks and presenting solutions.
- Resolve real-time safety concerns for spacecraft visiting the ISS and extravehicular activities (EVA) as a Safety Console Operator in the Mission Control Center at the Johnson Space Center.
- Analyze mechanical drawings and specifications to ensure items, vehicles, and missions meet technical standards for the International Space Station

Research Assistant - Nanoscale Design and Manufacturing Lab **May 2020 — September 2020**

The University of Texas at Austin *Austin, Texas*

- Used Python and MATLAB to create a predictive algorithm that inputs coordinates from an image to create an OPC (Optical Proximity Correction) that can be utilized to minimize thermal heat zones in nano-scale manufacturing.
- Presented the predictive algorithm as a solution to the problem of maintaining image integrity of intended designs for semiconductor manufacturing.

Projects

Customer Churn - Telecommunications **February 2022**

Skills: Python(Scikit-Learn, Pandas, NumPy, SciPy, Matplotlib), Logistic Regression, Machine Learning

- Built a logistic regression model using Python and the Scikit-Learn package to predict if customers would leave a telecommunications company based on multiple features such as customer demographics and behaviors from over 200 customers.
- The model aids in producing increased customer retainment and reducing the cost of acquiring new customers.

Drug Recommendation Engine - Decision Tree **February 2022**

Skills: Python(Scikit-Learn, Pandas, NumPy, Matplotlib), Decision Trees, Machine Learning, Data Visualization

- Created a multiclass classifier using Decision Trees from the Scikit-Learn package using data from over 200 patients to predict which drug out of 5 classes would be most suitable for a given patient based on multiple features (age, sex, blood pressure, and cholesterol level).

Python Voice Assistant **September 2021**

Skills: Python, APIs, Web Scraping, Speech to Text

- Built a Python voice assistant that utilizes APIs (Speech Recognition), multiple python packages, and web scraping to answer multiple questions including the weather, time, Wikipedia topics, calculations, and even make jokes.

Leadership Experience & Honors

United States Coast Guard Auxiliary Member — Summer 2021 — Present
University of Texas Athletic Scholarship Recipient — 2017 — 2021
NCAA Division I National Champion — 2018 & 2021
NCAA Division I University of Texas Men's Swimming Team — 2017 — 2021
Silver Medalist: Pan American Games — Summer 2019