# Jose William Martinez

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## Data Analytics College Graduate

Recent graduate with a bachelor's degree in Information Sciences. Aspiring to apply strong analytical, research, and technical skills to the Data Analytics field. Seeking to leverage data analytical skills to join a team working on initiatives leveraging data, data science, and other innovative technologies.

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## Education / Certifications

**BS - Information Sciences –** University of Maryland (2019)
**Mechanical Engineering** – University of Maryland (56 Credits)
**Certified Entry-Level Python Programmer (PCEP**) – OpenEDG (October 2020)
**Data Science Course –** Kaggle (July 2020)

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## Skills

- **Programming Languages:** HTML/CSS (Proficient), Java (Proficient), Python (Proficient), R (Proficient), SQL (Proficient), Unix (Proficient), JavaScript (Basic)
- **Cloud:** AWS API Gateway (Proficient), AWS Comprehend (Proficient), AWS Lambda (Proficient), AWS S3 (Proficient), Git (Proficient), Tableau (Proficient), Gitpod (Basic)

- **Operating Systems:** Mac OSX (Advanced), Windows (Proficient), Linux (Basic)
- **Software:** Microsoft Office (Advanced), Databricks (Proficient), Eclipse (Proficient), Jupyter Notebook (Proficient), MySQL (Proficient), OpenRefine (Proficient), Postman (Proficient), R Studio(Proficient), Visual Studio Code (Proficient), Qualtrics (Basic)

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## Portfolio Projects

| Conduct Sentiment Analysis of Tweets | May 2020 - October 2020 |
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Conducted Sentiment Analysis of Tweets using AWS services to support the back-end of an HTML site. Used various resources to complete the project such as AWS Comprehend, AWS API Gateway AWS S3, AWS Lambda, Github, and the Twitter API.

- Constructed front-end using HTML/CSS, and hosted the site on Github pages
- Wrote JavaScript functions to connect to the API endpoint hosted on AWS API Gateway, and to append the data into a HTML table
- Employed AWS Lambda to host Python Script, which connected to the necessary APIs
- Extracted Tweet Data, stored and retrieved data from a S3 bucket, and returned a response back to an API endpoint

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## Work Experience

| Java Trainee,  FDM Group | Nov 2020 – Mar 2021 |
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Spent 4 months in training to become a Java Developer. Completed numerous courses ranging from Professional Skills to Object Oriented Design Principles.

- Weekly projects and assessments were given to ensure that the material was being comprehended
- Built a Command Line Tool using Unix that allowed for recycling and restoring files/directories
- Using a TDD approach, an employee directory was created in Java that could successfully read and write to a Oracle SQL database by using the Java Persistence API (JPA)

| **Intern, National Nuclear Security Administration (NNSA)** | **May 2018 – October 2018** |
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Junior Year Internship with The Human Resources Department at the National Nuclear Security Administration (NNSA). Created several electronically fillable forms and assisted in automating processes using Microsoft Excel.

- Assisted in the creation of the Executive Resource webpages
- Prepared spreadsheets and PowerPoint presentations for the Director of the Human Resources
- Provided general administrative support and other-directed tasks to the head of Executive Resources Division
- Assisted in office tasks such as creating/maintaining documents, organization charts, and faxing/scanning documents

## Project Experience

| **Team Lead** | **September 2019 – December 2019** |
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Worked on a team of four to conduct analysis to determine if gentrification impacts criminal activity in Washington DC. Cleaned and analyzed pre-existing data while also creating data visualizations using said data.

- Data cleaning was performed in OpenRefine to both reduce the datasets and to ensure data was useable
- Utilized Python to read in datasets, create data frames using Pandas library, and create a visualization using Matplotlib library
- To supplement the visualizations used in Matplotlib, Tableau was used to create more meaningful visualizations/dashboards
- Lastly, created a python notebook using Jupyter Notebook that detailed the steps that were taken throughout the analysis, the results of the analysis, and a discussion of what the results entailed

| **Member/Developer** | **September 2019 – December 2019** |
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Worked on a team of four to leverage Qualtrics to create a Survey for Prince George's County Parks & Rec Department that would help increase participation of underrepresented communities in the 2020 census.

- Kept the group on track for completing milestones due to very strict timeline, served as the liaison between the Latino community and the group, and conducted the actual survey testing
- Two rounds of survey testing were carried out with surveys created using SurveyMonkey, Google Forms, and Qualtrics
- Passed on a set of deliverables to the client so that it may be administered at sanctioned events and posted to their website

| **Member/Developer** | **September 2018 – December 2018** |
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Member of a Project team to leverage APIs to analyze social network data using Python and any necessary libraries.

- Used Tweepy Library to connect to the Twitter API
- Python was used to develop the code and two classes were developed to do a bulk of the analyzation
- Pandas were used to analyze the data, and Matplotlib was utilized to create the visualizations

| **Member/Developer** | **September 2018 – December 2018** |
|---|---|

Worked on a team of three to leverage MySQL to set up a Database for a Hypothetical Small Retailer.

- MySQL Workbench was used to create the database and MariaDB was used as the server
- Populated the data using Microsoft Excel and then a CSV of the data was uploaded it to MySQL Workbench
- Tested the database by developing several SQL queries that utilized Joins, PL/SQL function, and stored procedures