

# Jeronimo Dcosta

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## PROFESSIONAL EXPERIENCE:

Utah Climate Center (Software Development Engineer)

Logan, Utah | October to Present

- Developed a program using **Beautiful Soup** to **automate data ingestion** of hourly weather data from the National Centers for Environmental Prediction website. This program **dropped time spent** at data download by **55%**.
- Created a system to push metadata of the downloaded data to a **PostgreSQL** database to avoid data inconsistencies. **Reduced** duplicate data downloads by **100%**.
- Automated the entire **ETL** workflow - data download, extraction of **NetCDF** from **Grib2**, adding new fields to the NetCDF by reusing previously built software and creating charts using **Tableau/HighCharts**.
- Used these charts to **forecast** the Inversion and evapotranspiration with an **accuracy of 74%**.

ASPIRE Research Assistant (Graduate Research Assistant)

Logan, Utah | March to October 2021

- Explored and analyzed Electric vehicle datasets using **Pandas**, Preprocessed data and created visualizations (**Matplotlib, Tableau**) for EV datasets to get insights to create **Qualtrics** surveys.
- Researched Electric vehicle journals to understand consumer perception towards Electric Vehicle's. Created written documents summarizing the work done in 437 research papers to find out the current gaps in research.
- Collected nationwide data using **Qualtrics** surveys, analyzed the new dataset applying sentiment analysis (**NLP**) to understand the role marketing messages play in the adoption of Electric vehicles.

eClinicalWorks (Software Development Engineer)

Mumbai, India | July 2018 to December 2020

- Provided a **POC** for a fraud detection model to prevent claim-based fraud. Developed a ML model (**Logistic Regression**) to detect anomalies using historical data and trends of a practice.
- Worked with the web development team in an **AGILE** environment to build an **HL7** and **HIPPA** compliant EMR application for multiple web browsers (Chrome, Internet Explorer, Mozilla Firefox and Safari) using **Node.js, HTML, CSS, JavaScript** using a **PostgreSQL** database.
- Created S3 buckets in the AWS environment to store files, implemented S3 versioning and life cycle policies.

## ACADEMICS

**Master of Management Information System**

Logan, Utah | May 2022

Utah State University – Jon M. Huntsman School of Business

**Bachelor of Management Studies**

Mumbai, India | April 2017

University of Mumbai

## INTERESTING PROJECTS

**Project Management System**

**Python, Django, JavaScript, HTML, CSS, Heroku**

Built a Project Management System for a construction company to keep track of open and closed projects. Included an employee management system within the application.

**GUI Chatbot**

**Python, NLTK, Tkinter**

Created a Chatbot with Python and Natural Language Processing.

## TECHNICAL SKILLS

**Programming Languages & Frameworks:** Python 3.9 (Pandas • Natural Language Processing NLP • NLTK • Django • Beautiful Soup • Matplotlib), Node.js (Express), JavaScript, HTML, CSS

**Databases:** PostgreSQL • MYSQL • Oracle • NOSQL

**Technology:** Amazon Web Services (Cloud9 • Amplify • RDS), Git, Heroku, Tableau, JIRA, Linux, Unix, Windows, Docker