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Cristopher Soto

Data Engineer

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EXPERIENCE

Data Engineer - Analyst NYCSBUS

Jun 2022 - present

- Developed geospatial Applications using AWS services (lambda, S3, Dynamodb, EC2, Autoscaling Groups, RDS)
- Built ETL pipelines using airflow and spark
- Designed cost efficient solutions for business applications
- Automated business-related tasks using APIs and AWS Lambda.

EDUCATION AND COURSEWORK

AWS Certified Developer Associate, Score: 810

2022

Bachelor of Computer Science, Hunter College - CUNY (GPA 3.8)

Jun 2023

Harvard's CS50

2020 — 2021

GED, Pathways to Graduation at City College

2017 — 2018

SKILLS

Programming Languages Python, SQL, JavaScript.

Frameworks Apache Airflow, Apache Spark, Flask, React, Dash.

OS Linux (Ubuntu), Windows.

ORMS/DBMS SQLite3, PostgreSQL, SQLAlchemy.

Communication English, Spanish (Native speaker), French (Basic)

Other Plotly, Algorithm Design and Analysis, Data Structures, AWS, PGAdmin, BigQuery, Git/Github, HTML/CSS, Bootstrap, Sass, Unittest, Pandas, Numpy.

PROJECTS

AWS ETL Pipeline

- Developed an ETL pipeline orchestrated with Apache Airflow.
- Created an S3 bucket using the AWS console and configured a connection with Boto3 and Airflow.
- Designed a PostgreSQL database table on AWS RDS.
- Configured the RDS to access the S3 Bucket using AWS IAM.
- Implemented a filtering option for users' to-do items.
- Deployed the Dash visualization dashboard on the Heroku Service using Gunicorn.

Server-Side CRUD To-Do Application

- Developed a full-stack server-side application that allows users to register and login by email and username using the Flask framework.
- Utilized the Google Calendar API with OAuth 2.0 to allow users to automatically synchronize their to-do items with their google calendar account if a deadline for the to-do item is provided.
- Designed a database using SQLAlchemy with Python OOP.
- Implemented a python SMTP using the ItsDangerous so that users may recover their account if they have forgotten their password.
- Built the front-end UI using Bootstrap, HTML, CSS, and JavaScript.
- Implemented the Moment.js library to parse through the python date-time objects of each to do and return a user friendly date-time in the client-side UI.
- Implemented a filtering option for users' to-do items.
- Deployed the application on the Linode Cloud Service using Gunicorn and NginX.

Name Querying and Data Visualizing Web Application

- Developed a data-visualizing tool that allows you to query for how many people with a particular name have applied for a social security card from 1910 to present.
- Constructed a choropleth map using Plotly that tells the user how many individuals with the input name have applied for a social security card on each state for the last 100 years when they hover over each state.
- Built an interactive chart that tells the user the number of people that have applied for social security in the U.S. every year since 1910.
- Deployed application to Heroku using Gunicorn