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## **Summary of Qualification**

Self-motivated, creative and resourceful bilingual (English/Chinese) data analyst with geospatial analysis skills and knowledge in various tools to gather, transform, analyze, interpret, present and visualize data for a company to grow, expand, formulate and strategize company's mission and values.

## **Technical Skills**

Languages : Python, Pandas, Redshift SQL, PostGIS, VBA, JavaScript, R, HTML/CSS, RPGs and CL

Software : Alteryx, Carto, Precisely Spatial Manager/Enterprise Designer

Platform : Azure, Iseries, AS/400, AWS-S3/RDS/EC2

Tools : Git, Dbeaver, DataGrip, MQ series, FTP

Databases : relational database, geojson, json and MongoDB.

## **Data Analytic Projects**

- To compute geoscore of locations, and to locate desirable MSA/hexagonal neighborhoods are for deploying of various use cases.
- To create APIs to allow calculation of isolines, to geocode, to locate placekey, to generate hexagonal neighborhoods etc.
- To design the ingestion of exhaustive parking locations from salesforce and redshift.
- Tableau project showing the New York City bike ridership :  
<https://public.tableau.com/profile/moemily#!/vizhome/NYCBikeRidership-forfuturegrowth/Story1>.
- A group project with three other members to study Miami crime (using jail booking data from 2015 to early 2019) – the app shows different tableau dashboards that analyze crime rate/types by cities and age of criminals, homeless individuals' crime and machine learning models (sklearn) for the crime data. I worked on the flask app, the HTML/CSS, added tableau to HTML seamlessly, did the homeless story and the tableau graphs and hosted it to AWS EC2.

This app is hosted in AWS EC2 : <http://18.218.187.124:5000/>.

- An app to showcase an interactive dashboard that displays the various bacteria in a selected belly button visualized in a bubble chart, a pie chart and a gauge chart. It is hosted in Heroku app while using SQL alchemy, javascript, HTML and flask app.

<https://data-analytics-bellybutton.herokuapp.com>

## **Career Highlights**

- . Assisted kitchens and retail teams to locate areas to deploy kitchens/retail/brands to maximize revenue and minimize cannibalization – by calculating geoscore, poi, creating Carto maps to identify different neighborhoods and to highlight overlaps with existing deployed use cases.
- . Migrated/upgraded banking system to Equation Banking System; incorporating interfaces, user training and local development/reporting for Public Bank in Hong Kong, Bank of Hawaii, State Bank of India, Delta Bank, Citco, ICBC, Bladex in Panama, and other banks in North and Central Americas, Canada and the Caribbeans.
- . Support banks in Europe, North and Central America.
- . Technical training of bank clients.
- . Created (developed, tested and installed) ST payments interface from the Iseries legacy systems to Server, converting CHIPS/FEDs/SWIFTs to accounting entries and generating fees where necessary. Clients include Ocean Bank, BPA, UOB Arab American Bank, State Bank of India, Delta Bank and BCH.
- . Developed daily extraction from legacy system to PRIME BSA.
- . Created a list of periodical Fed reports for banks and developed Reg CC and Reg DD to interface with Equation Core Banking System.
- . Developed Inventory System and Foreign Exchange and Money Market System for HSBC

## **Employment History**

### **REEF Technology**

**Aug 2019 - now**

### **Equation consultant at Global Information Processing**

**Feb 2018 – Aug 2019**

- Upgrade Equation Legacy Banking System and local development/interfaces on Iseries.

### **Montessori Teacher at Coral Reef Montessori Academy Charter**

**August 2014 – Jan 2019**

- Teach first through third graders math, cultural and science.

### **Senior Support Consultant at Misys (now Finastra)**

**January 2006 –March 2014**

- Support of global clients in the Equation Banking system (EQ3.4, EQ3.6, EQ3.8 and above) on Iseries; consisting of a wide range of modules including foreign exchange, money market, retail deposits, loans, accounting, risk management, SWIFTs, translation, balance sheets, profit and loss statements and others;
- Effective and efficient communication with clients all over the world; via email, phone, web-ex and/or documentation;
- The top productive consultant resolving issues of various modules in years;
- Sole consultant in the USA, with other team members in the Philippines and the United Kingdom;
- Develop, test, install and upgrade interfaces and projects peripheral to the core banking system using FTP or MQ series;
- Develop reports via SQLs.

## **Education**

- **Data Analytics Certification**, University of Miami Data Analytics Boot Camp, *June 2019*
- **M.S. In Montessori Education**, Barry University, *GPA 4.0.*
- **B.S. In Computer Science**, State University of New York at Albany, *Magna Cum Laude*