

JOHN MATHENA

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SKILLS

Programming: R, Python, SQL, HTML/CSS, VBA

Data Visualization: R Markdown, R Shiny, Plotly, ggplot, PowerBI

Cloud and Databases: AWS RDS, MySQL, SQLite

Foreign Languages: Arabic (Modern Standard, Egyptian, Moroccan dialects), Spanish

EXPERIENCE

ENGINEER II (DATA) – Oct 2022 - Present

2U / Baltimore, MD (remote)

- ❖ Administer ETL process updating and creating student enrollment data in Salesforce and Learning Management Systems for dozens of degree programs
- ❖ Query millions of records in cloud-based postgresql databases to find student and faculty enrollment errors
- ❖ Coordinate with enrollment specialists to ensure data management systems function properly and catch errors efficiently

DATA MANAGER – Mar 2021 - Oct 2022

211 Maryland / Columbia, MD (remote)

- ❖ Centralized millions of call records for publicly available reports using AWS RDS for MySQL
- ❖ Build PowerBI Reports to allow organizations and public data consumers to analyze data
- ❖ Write data dictionaries for metrics collected by network call centers
- ❖ Design and manage SharePoint page hosting reports, dashboards, and tables containing relevant data
- ❖ Analyzed compiled data from 211 calls and the Census to inform advertising strategy in underserved areas of the state

COMMUNITY LIAISON AND ANALYST – Jan 2020 – Mar 2021

Office of the State's Attorney for Baltimore City / Baltimore, MD

- ❖ Compiled and visualized data on thousands of active court cases using Google Maps to keep public informed
- ❖ Mapped dozens of crimes using Google Earth to aid Attorneys and other Analysts in advancing criminal investigations
- ❖ Calculated rate of agreement between prosecutors' bail recommendations and judges' decisions using Excel to inform pretrial bail recommendation policy

ANALYST – Oct 2018 – Jan 2019

Health Informatics, Lawrence Douglas County Public Health / Lawrence, KS

- ❖ Visualized average length of stay and average client intake in LDCHD Clinic for over 10,000 encounters in 2017 using R Markdown
 - ❖ Built map in ArcGIS to visualize addresses of clinic patients across the city grouped by type of clinic visit
 - ❖ Wrote R script to automate data formatting and analysis for monthly entry into DAISEY reporting system, reducing days of work to just an hour or two
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EDUCATION

BACHELOR OF ARTS, (2) Linguistics, Arabic Studies – May 2018

University of Maryland