

# JOHN MATHENA

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## SKILLS

**Programming:** Python, SQL, JavaScript, Git/GitHub, Bash, HTML/CSS, R

**Cloud:** AWS | RDS, DocumentDB, Lambda, SQS, SNS, CloudWatch, Secrets Manager

**Databases:** PostgreSQL, MySQL, MongoDB

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

## EXPERIENCE

### SOFTWARE ENGINEER II (DATA) | *Oct 2022 - present*

2U | Lanham, MD (remote)

- ❖ Lowered issues by 82 percent in Q3 2023 compared to the previous year
- ❖ Review code and control software versions using Git and GitHub
- ❖ Develop and maintain internal-facing tools for student, faculty enrollment
- ❖ Implement scalable data transformations using modern web technologies like JavaScript and Postgresql

### DATA MANAGER | *Mar 2021 - Oct 2022*

211 Maryland, Maryland Information Network | Columbia, MD (remote)

- ❖ Developed automated tests on ETL pipelines to ingest call data
- ❖ Built public-facing PowerBI reports visualizing millions of call records
- ❖ Wrote data dictionaries for metrics collected by network call centers
- ❖ Designed internal-facing SharePoint page hosting reports and dashboards

### 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 cases with Google Maps
- ❖ Mapped dozens of crimes using Google Earth to advance investigations
- ❖ Attended monthly meetings for over two dozen community associations

### ANALYST | *Oct 2018 – Jan 2019*

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

- ❖ Visualized average clinic length of stay and intake for 10k encounters using R
- ❖ Built map in ArcGIS to visualize patient addresses grouped by type of visit
- ❖ Reduced monthly DAISEY system report entry from days of work to one hour using R

## EDUCATION

### BACHELOR OF ARTS (2) | *Linguistics, Arabic Studies*

University of Maryland, College Park