

# Saravana Mauree

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## Skills

**Back End Development :** Java | Python | SQL | PostgreSQL | .NET | Dbeaver | Spark

**Front End Development:** ReactJs | JavaScript | Next.js | Figma

**Data Science:** scikit-learn | numpy | pandas | matplotlib | Hypothesis Testing | Statistics | Machine Learning | Experimental design |

**Data Visualization:** Quicksight | Tableau | PowerBi

**Data Pipelines:** Amazon Redshift | Amazon S3 | ETL

**Miscellaneous:** Sprout Social | Git | NoSQL

**Soft Skills:** Result Oriented | Effective Communicator | Adaptable

**Languages:** English, French, Japanese, Hindi, Mauritian Creole – All professional proficiency or above

## Experience

### Data Engineer/ Scientist, Intern

#### Nuvve

San Diego, CA

05/2023 - 08/2023

- Contributed to cross-functional projects predicted to generate \$8 million in revenue, by identifying critical data insights and crafting models for SARIMA-based predictions, boosting forecasting accuracy.
- Optimized EV energy grid prediction by utilizing Python to apply unsupervised learning to 1TB of unstructured V2G data, achieving a 15% reduction in total processing time and significantly enhancing charging efficiency.
- Wrangled 3TB of V2G systems data with Dbeaver, remodeling and visualizing key metrics to craft 9 dashboards from previously inaccessible data sets. This granted project managers independent data access, slashing data engineer dependency by 50%.
- Streamlined data operations by engineering 2 ETL pipelines that automated data transformation and loading, saving 10 hours of manual work per week.
- Facilitated the migration of 5TB V2G data from Amazon S3 to Redshift, optimizing data warehousing practices and cutting BI report retrieval times by 20%.
- Resolved 8+ ECS tickets monthly, improving resolution time by 10% and enhancing cloud application reliability.

### Software Developer, Part-Time

#### Freelance

Youngstown, OH

05/2021 – 01/2024

- Developed 10+ RESTful APIs and web applications using .NET, MongoDB and ReactJs, boosting client operational efficiency by 25% and user engagement by 40%.
- Involved in 8 projects optimizing system architecture, reducing load time from seconds to milliseconds by minimizing HTTP requests, compressing and minifying files and leveraging browser caching.
- Boosted system performance by implementing memory efficient algorithms and optimizing React state management.
- Transformed client data analytics by leveraging Python and Spark for the processing of 1TB+ datasets, enhancing analytical assets and insight generation, thus significantly improving data-driven decision-making.
- Spearheaded the integration of social media analytics tools (Social Sprout), increasing market reach by 20% across major social media platforms and uncovering key customer KPIs.

### Instructor of Record,

#### Youngstown State University

Youngstown, OH

01/2023 - Current

- Developed and taught undergraduate math curriculum, achieving a 23% average grade improvement.
- Used innovative teaching methods to boost class participation by 70% and achieve a 97% student satisfaction rate.

## Education

### Bachelor of Science

#### Youngstown State University

Youngstown, OH

01/2019 - 12/2022

- Major in Computer Science
- Cumulative GPA: 3.94/4.00
- Senior Project: 2D Game Maker a 2d Physics Engine & Platformer Engine and an in-depth UI/Level Editor

### Master of Science In Mathematics

01/2023 - 12/2024

## Mentorship

- Computer Science Tutor:** Programming | Data Structure and Algorithms | Discrete Structures (01/2021 - 12/2022)
- Math Tutor:** Algebra | Calculus | Linear Algebra | Discrete Math | Statistics | Differential Equations | Real Analysis (01/2020- 12/2022)