

Saravana Mauree

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Skills

Back End Development: Java | Python | SQL | PostgreSQL | Node.js | Dbeaver | Spark

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

Data Science: scikit-learn | numpy | pandas | matplotlib |

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

Freelance Software Developer, Part-Time

Various Clients

Youngstown, OH 05/2021 - 01/2024

- Developed 10+ RESTful APIs and web applications using MongoDB, Express, React, and Node.js, boosting client operational efficiency by 25% and user engagement by 40%.
- Optimized system architecture, reducing load time from seconds to milliseconds by minimizing HTTP requests, compressing and minifying files, and leveraging browser caching.
- Transformed client data analytics by leveraging Python and Spark for the processing of 1TB+ datasets, enhancing analytical assets and insight generation, significantly improving data-driven decision-making.
- Boosted system performance by implementing memory-efficient algorithms and optimizing React state management.
- 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.

Software Engineer, 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.
- Reported directly to DOE: Wrangled 3TB of V2G systems data with Dbeaver, identifying key metrics to craft 9 dashboards from previously inaccessible data sets. This granted project managers independent data access, slashing data engineer dependency by 50%.
- 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.
- 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%.
- Boosted system performance by implementing memory-efficient algorithms and optimizing React state management.

Instructor of Record, Contract

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

Master of Science

Youngstown State University

Youngstown, OH 01/2023 - 12/2024

- Major in Mathematics and Statistics

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)