Lalithya Sajja

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"Enthusiastic and self-motivated Software Engineer with 4 years of hands-on experience in developing, analyzing and troubleshooting business applications and products."

TECHNICAL SKILLS

- **Programming Languages**: Python, JavaScript, Scala, HTML, CSS, SQL
- **Frameworks and Tools**: Django, React, NodeJS, PowerBI
- **Databases:** Oracle, MySQL, Microsoft SQL Server, SQLite
- **Cloud:** AWS, Microsoft Azure, GitHub

EDUCATION

Master of Science in Computer Science Jan 2023 – May 2024
University of Georgia at Athens **GPA: 4.00**

- Coursework: Adv. Distributed System, Adv. Information Systems, Data Science, Algorithms, DBMS, SE, Computer Networks

WORK EXPERIENCE

Software Engineer, *Devpoint Solutions Pvt Ltd, Hyderabad, India* *Sept 2018 – Nov 2022*

- Orchestrated the development of the **Web API** using **Python** and **Django Framework**, ensuring seamless connectivity and functionality for Juzbi, an e-commerce platform specializing in online store creation and business planning.
- Developed reusable web components with **React JS** and **Redux**, leading to a 30% reduction in code size, decreased development time, and improved code maintainability.
- Enhanced functionalities and resolved bugs in the **React** framework and implemented **A/B testing** to compare different versions of web pages, that improved the performance and user experience.
- Led the development of **web interfaces** using **JavaScript** and **NodeJS** for Service Documentation and Compliance Program, enabling the digitization, and streamlining of electronic forms for Admission, Placements, Assessments, and other essential services which ensured compliance with State and Federal regulations for IEP, EP, and Behavioral Support.
- Crafted structured and efficient **SQL queries** to extract, manipulate, and analyze data from large datasets, supporting the development of data-driven features and insights for the platform.
- Utilized **Power BI** to create interactive dashboards and charts, incorporating KPIs for comprehensive analysis and real-time monitoring of classification data and product revenue in business growth, leading to an 80% improvement in data accessibility.
- Deployed the web application on **AWS Cloud**, configured and managed EC2 instances to ensure optimal performance, scalability, and reliability of the application. Implemented best practices for security, monitoring, and cost optimization.
- Collaborated effectively within an **Agile team**, fostering open communication, and ensuring seamless coordination to achieve project milestones and deliverables.

PROJECTS

Online Bookstore | e-commerce website

- Designed and spearheaded a **full-stack** e-commerce website using **Python** with the Django Framework for the backend, **HTML, CSS, and JavaScript** for the frontend, and **SQLite** for the database.

Airport Management System | Web application and Database design

- Strategically engineered the database by comparing UML Class Diagrams, 3NF/BCNF Normalization techniques.
- Built an interactive web-based application using **NodeJS** for backend and **ReactJS** for frontend and **MySQL,** to view the data with the help of **pagination** to display huge data.

ScalaTion Project | Big Data analytics | MIT Licensed Open source Software

- Played a key role in the development of the Scalation project, a comprehensive framework for large-scale analytics, simulation, and optimization, by implementing various models to improve the framework's capabilities in handling complex analytics tasks.
- Enhanced **Regression Trees** to facilitate optimal data splitting at greater depths**,** implemented the **feature bagging** technique **in Random Forest,** and developed **gradient boosting** algorithm using **Scala**.
- Conducted comparative assessments against **scikit-learn's** libraries, achieving a correlation of over 99%.

House Price Predictions | Advanced Regression Techniques

- Led comprehensive Exploratory Data Analysis (**EDA**) to unveil patterns and outliers on 79 feature variables.
- Performed meticulous **data preprocessing** to handle missing values, categorical variables by employing data imputation, normalization, and one-hot encoding, ensuring an optimized dataset for advanced regression analysis using **NumPy** and **Pandas**.
- Executed **Model Development** by utilizing advanced techniques such as Randomized Search for **Hyper Parameter Optimization** and Kfold Cross-Validation for **model testing**.