SATHWIK REDDY VELMALA

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LinkedIn | **GitHub** | Portfolio

SUMMARY

Motivated and detail-oriented software developer with over 2 years of practical experience, seeking an opportunity to join your organization where I can apply my advanced technical and analytical skills to contribute meaningfully to your business objectives. I also aim to deliver impactful solutions and pursue personal and professional growth.

WORK EXPERIENCE

Analytics Developer - SAFERTEK IT SOLUTIONS PVT LTD   **August 2020 – November 2022**

SAFERTEK Software LLC is an American-based private unified supply chain software company that develops, supplies, and manages enterprise software to manage supply chain business operations.

- Developed an ERP product UWareOne, and its services using Python and Django-Rest framework respectively to enable seamless integration with third-party services and internal systems.
- Accelerated early development of beta version by participating in agile development processes, including sprint planning and daily stand-ups; slashing deployment times by 40%, leading to a 30% hike in profits and a better user experience.
- Led a cross-functional team in complex data structures migration from SQL Server to MariaDB, ensuring data integrity and minimal downtime by schema normalization.
- Implemented caching mechanisms and database indexing strategies to enhance query performance and optimize excess server load.
- Designed and deployed completely functional reports on SSRS and custom dashboards using Tableau and Python libraries such as Seaborn and Matplotlib to visualize key performance indicators, empowering stakeholders to make data-driven decisions, leading to boosting customer satisfaction rates by 35%.
- Collaborate with other teams to make sure analytics tools are integrated properly with UWareOne functionalities and optimize their performance to handle large datasets while minimizing latency and improving user experience.

TECHNICAL SKILLS

- **Database and Client/Server Technologies**: RESTful APIs, MariaDB, NoSQL, MySQL, OracleDB.
- **Programming Languages:** Python, C, Java, JavaScript, SQL
- **Web Technologies & Frameworks:** HTML, CSS, Django, Flask
- **Visualizing tools:** Tableau, Microsoft PowerBi, Spotfire
- **Cloud platforms**: GCP, AWS, Azure
- **Machine Learning:** Keras, TensorFlow, CNN, PyTorch, NumPy, Pandas, sci-kit-learn, cv2
- **Big Data Technologies**: Hadoop, Spark
- **Version Control**: Git

EDUCATION

Master of Science in Engineering Data Science   **Aug 2017 - July 2021**
                                                                     GPA - 9.08/10
University of Houston, Houston, Texas
Related Coursework: Python Programming, Data Analytics and Visualization, Relational Databases, Data Engineering

Bachelor of Technology in Computer Science   **Jan 2023 - May 2024**
                                                                     GPA - 3.7/4
Malla Reddy Engineering College
Related coursework: Machine Learning, Big Data Analytics, Database Management Systems, Object Oriented Programming

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PROJECTS

R-CNN Object Detection with Machine Learning | Python, TensorFlow, Keras
- Engineered machine learning algorithms using TensorFlow shipped with Python and its different libraries.
- Created a software model for machine learning algorithms through Keras API to detect and get an accurate location of objects in an image via selective search and non-maxima suppression algorithms respectively.

E-Learning Management System | PHP, HTML, CSS, MySQL
- Devised an E-learning management system with PHP and JavaScript to build server-side logic, HTML and CSS to create intuitive web pages, MySQL in XAMPP for database management; and launched the application using Apache server in XAMPP.

Analysis and Prediction of Disaster Tweets | Python, AWS, Flask, WinSCP, Putty
- Analysed 10k tweets in CSV data format and generated the best model for reviewed data after data preprocessing to reduce downtime and increase efficiency.
- Saved the model in Amazon S3. A web application created via Flask is uploaded into an Amazon EC2 instance and presented locally using WinSCP and Putty respectively.

Facial Reconstruction System | Python, OpenCV, Dlib
- Engineered a Facial Reconstruction System utilizing Python and OpenCV, employing advanced image processing techniques to perform sophisticated image morphing.
- Implemented a cutting-edge facial reconstruction model using Laplacian and Gaussian methods for image restoration and Python & Dlib library to regenerate disfigured facial images.

Video Game Sales Analysis | Python, Tableau
- Collaborated on a project to analyze video game sales data using Tableau, initially by preprocessing CSV datasets with Python to ensure data accuracy and readiness for analysis.
- Developed and built insightful Tableau dashboards and reports to visually represent various trends in data; guaranteeing data-driven decision-making processes for market strategies.

CERTIFICATIONS

- Google Cloud Platform Certifications in Architecting with Google Compute Engine
- Google Cloud Platform Certifications in From Data to Insights with Google Cloud.
- QEEE Certification in Programming in C and Data Structures.