SHWET SAOJI

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EDUCATION:

San Diego State University   San Diego, CA
MS in Computer Science; GPA: 3.9/ 4   Aug 2022 – Present
-Theory of parallel algorithms   -Scientific Database Techniques   -Principles of Data Science
-Machine Learning   -Modern Web Development Framework   -Adv Object Oriented Design Programming

University Of Pune   Pune, India
Bachelor of Engineering in Computer Engineering   Jun 2014 – Jun 2018

EXPERIENCE:

Full Stack Developer (Website) | *HTML, CSS, JavaScript, PHP, WordPress, Omni CMS, SQL.*   San Diego, California
SDSU Office of Science   May 2023 – Present
- Implemented full-stack design using **HTML**, **CSS**, **JavaScript,** and **PHP** to improve overall website aesthetics.
- Spearheaded a better engineering effort to modernize website code by migrating from **WordPress** to **Omni CMS.**
- Utilized WordPress as a content management system to create and manage **dynamic website** content.

Application Development Analyst | *Agile, Scrum, Ab-initio, Python, SQL, Autosys, ETL, data modelling.*   Pune, India
Accenture   Jun 2021 – May 2022
- Streamlined the cost calculation process for client teams, resulting in accurate and reliable agile cost metrics, using Rally API as primary data source. Utilising Ab-initio, python and SQL transformed raw data into information.
- Utilised Ab-initio to Extract and validate data from multiple sources. Created automated processes using Shell Scripting to notify and correct erroneous data.
- Implemented business logic on validated data to get desired outcomes as per client requirements.
- Improved data accessibility by loading processed data into a centralised database, facilitating easy querying and reporting. Implemented Stored Procedures and triggers to maintain database integrity.
- Enhanced the efficiency by 90% utilising Autosys to automate data retrieval and processing tasks.

Data Engineer | *Shell Scripting, Ab-initio, Agile, S3, Lambda, Snowflake, Teradata, SQL.*   Pune, India
Bitwise   Oct 2018 – Apr 2021
- Leveraged banking data and credit bureau information to perform in-depth analysis of existing bank customers. Utilized advanced data analytics techniques to assess creditworthiness and determine suitable line of credit disbursement amounts.
- Developed a highly scalable data flow pipeline using Ab-initio as the ETL tool, shell scripting to automate and optimise tasks, Teradata and Snowflake as database and IBM TWS as scheduling tool.
- Automated error notifications for scheduled processes through Shell Scripts, ensuring timely error resolution and adherence to SLAs. Reduced manual efforts by 90%.
- Spearheaded an effort to migrate data to cloud. Used AWS S3 and Lambda functions to push data into Snowflake SaaS platform.
- Used Protegrity engines to mask sensitive data. Developed robust applications to handle tokenised data.

PROJECTS:

Restaurants Success Prediction | *Python, Panda, NumPy, Jupyter, scikit-learn, ML algorithms, Matplotlib.*
- Predicted the success rate of new restaurants with *98.87%* accuracy using multiple machine learning algorithms.
- Performed Exploratory Data Analysis on *12000+* restaurant's data to derive relations between various features.
- Followed data science life cycle and implemented EDA, feature engineering and selection, and model building.

Sorting Visualizer | *JavaScript, HTML, CSS, Data Structures, Algorithms.*
- Developed interactive sorting visualizer webapp that implements different sorting algorithms to sort numbers.
- Implemented sorting algorithms using JavaScript. Enabled user interaction by utilizing event driven programming.
- Leveraging HTML and CSS, created an engaging user experience through visual animations, allowing users to observe and understand the sorting process.

AI text to image generation app | *MongoDB, Express, ReactJS, NodeJS, HTML, CSS, Vite, Tailwind.*
- Developed a full-stack MERN web app with integrated DALL-E API for AI-based image generation.
- Successfully implemented text-to-image generation based on user input text. Utilized Vite as build tool and Tailwind CSS for efficient UI design. Integrated Cloudinary for optimized image load speed.
- Implemented features like sharing images with community and image downloading.

PROGRAMMING SKILLS:

- Programming Languages: Python, JavaScript, Bash Shell Scripting, C++, SQL, HTML, CSS, Bootstrap, PHP
- Database: MySQL, MongoDB, Teradata, Snowflake
- Technologies: Github, REST, Express, ReactJS, NodeJS, Tailwind, pandas, scikit-learn, Linux
- Tools and cloud: AWS S3, Git, Ab-Initio, IBM Job scheduler, Autosys