LAVAN JADA

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EDUCATION

University at Buffalo, The State University of New York at Buffalo **Aug 2022 - Dec 2023**
Master of Science: Data Science

M S Ramaiah University of Applied Sciences **Aug 2018 - May 2022**
Bachelor of Technology: Computer Science

SKILLS

Programming & Frameworks: Java, Python, JavaScript, C++, React.js, Angular, Spring Boot, R, Node.js, Express.js, Hibernate, RESTful APIs, TypeScript, HTML, CSS, SSIS, SQL Server, jQuery, Ruby, Linux, Bootstrap, Velocity.js
Backend: PostgreSQL, MySQL, Python (Flask, Django), AWS (EC2, S3, RDS, Lambda, Redshift, Glue), Azure, PHP
DevOps & CI/CD: Docker, Kubernetes, Jenkins, GitLab CI/CD, Kafka, Maven
Testing & Monitoring: JUnit, Mockito, Selenium, Postman, Junit, Git, Power BI, Chrome DevTools, Tableau
Product Management: Agile, Scrum, JIRA, Confluence, Trello, A/B Testing, UI/UX, Figma, Lean, Kanban, Slack, SDLC

PROFESSIONAL EXPERIENCE

Software Developer, Beyond Exam, United States **Aug 2023 – Nov 2024**

- Spearheaded the design and development of a dynamic web application, enabling seamless user interaction and navigation through intuitive layouts using **React.js, HTML5**, and **CSS3**.
- Built and integrated modular and reusable components with **JavaScript** and **Bootstrap**, ensuring consistent and responsive design across devices.
- Developed **RESTful APIs** using **Flask** and **Node.js**, enabling robust back-end functionality and efficient data handling.
- Deployed the web application on **AWS (EC2, S3, RDS**, and **Lambda**), leveraging cloud infrastructure for scalability and high availability.
- Gathered and analyzed business requirements, collaborating with stakeholders to define technical specifications for a microservices architecture.
- Created a comprehensive dashboard system for real-time data insights, integrating data from back-end services and visualizing trends with **Power BI**.
- Conducted front-end optimization by implementing lazy loading, minification, code splitting, reducing load times by 35%.
- Tested application functionality using **Selenium** and **Chrome DevTools**, ensuring cross-browser compatibility and a smooth user experience.
- Managed version control, code reviews, and collaboration using **Git** and **GitHub**, coordinating with cross-functional teams.
- Documented system architecture, deployment configurations, and workflows, facilitating easier handovers and maintenance.

Software Developer, MTIET, India **May 2021 – Jun 2022**

- Designed and launched interactive data-driven web applications for operational insights, leveraging **HTML5, CSS3**, and **JavaScript** for engaging user interfaces.
- Performed data extraction and analysis using **SQL, R**, **SSIS** and **Python**, supporting root cause identification and trend analysis.
- Implemented robust state management with **Redux**, optimizing performance and reducing page load times to under 1 second.
- Designed relational databases (**MySQL, SQL Server, PostgreSQL**) to optimize query execution and ensure data consistency.
- Automated repetitive reporting tasks with **Excel VBA** and advanced **SQL** queries, reducing manual efforts by 40%.
- Created interactive dashboards with **Power BI** and **Tableau** to monitor key performance metrics in real time.
- Created reports in **SSRS**, enabling real-time filtering and interactivity for academic and administrative stakeholders.
- Conducted extensive cross-platform testing to ensure responsive designs worked seamlessly across desktop and mobile devices.
- Applied advanced analytics models including **EDA**, feature engineering, segmentation, **NLP**, hypothesis testing, regression analysis, and clustering techniques to uncover patterns and identity outliers, driving a 25% improvement in feature adoption.
- Translated business requirements into technical design, **ER** diagrams and utilized advanced **Excel** techniques such as VBA, pivot tables, VLOOKUP's, array functions for data manipulation and ad-hoc reporting.

PROJECTS

University Management System – Microservices Architecture

- Designed and implemented a microservices-based platform to handle real-time data processing and synchronization across multiple university departments, ensuring high availability and fault tolerance using **Spring Boot** and **Hibernate**.
- Deployed containerized microservices on AWS ECS with Kubernetes, automated CI/CD pipelines using Jenkins, and optimized data storage and retrieval with **AWS** S3 and RDS, improving system performance and reducing deployment times by 40%.

CERTIFICATIONS

Google Project Management, AWS Fundamentals, Big Data Specialization, Data Engineering, Apache Spark Essentials, Product Management Essentials, Technical Product Management, Data Structures & Algorithms.