KUMBAM SAI SRI HARSHA

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Experience   **GitHub   LinkedIn**

Programmer Analyst   **Cognizant Technology Solutions**   **August 2022-January 2023**

- Collaborated closely with stakeholders and business analysts to gather and analyze requirements, ensuring alignment with project objectives and client expectations.
- Contributed to the development and maintenance of software applications leveraging the Java programming language.
- Worked collaboratively in a cross-functional team environment to meet project milestones effectively.
- Utilized Agile methodologies such as JIRA to enable iterative development cycles.
- Managed PostgreSQL database for efficient data storage and retrieval.
- Conducted comprehensive code reviews, unit testing, and debugging activities resulting in a 20% improvement in code quality and a 15% reduction in post-release defects.
- Collaborated with client's team on a data migration project to upgrade legacy Java applications to newer versions ensuring minimal disruption to business operations and maintaining compatibility with existing systems.
- Ensured the project's scalability and continued development by maintaining thorough technical documentation, which included release notes, API documentation, and system designs.

Programmer Analyst Trainee   **Cognizant Technology Solutions**   **August 2021-July 2022**

- Analyzed requirements and functional specifications of applications, ensuring clarity and alignment with project objectives.
- Conducted ad-hoc data analysis and exploratory data analysis(EDA) to address specific concerns, investigate anomalies, presenting findings and recommendations to project teams and clients.
- Led data cleaning, transformation, and validation tasks to ensure data accuracy and integrity, using advanced techniques and tools such as pandas, and NumPy.
- Developed and maintained automation scripts and data pipelines to optimize data workflows and boost productivity for data processing and analysis jobs.
- Actively participated in Sprint planning, daily stand-up meetings, and retrospective sessions as part of Agile software development practices, fostering collaboration and continuous improvement within the team.

Software Intern   **Cognizant Technology Solutions**   **March 2021-July 2021**

- Received comprehensive training in Java development and Automation Testing, gaining, foundational knowledge in programming concepts and software testing methodologies essential for software development projects.
- Acquired hands-on experience with various frameworks such as TestNG, Junit, Page Object Model, and Cucumber Framework.
- Collaborated with senior developers and testers on ongoing projects, contributing to developmental tasks, and testing activities within a cross-functional team environment.
- Created visually compelling dashboards and interactive visualizations using tools such as Tableau, matplotlib/seaborn, presenting data findings in a clear and accessible manner for non-technical stakeholders.
- Proactively identified and resolved issues, contributing to project success, while continuously seeking opportunities for learning and growth through research and hands-on experience.

Education

Maryland, MD   University of Maryland Baltimore County(UMBC)   Jan 2023- Dec 2024*

- **Master of Science (MS) in Information Systems, CGPA: 3.9/4.0**
- **Relevant Courses:** Advanced Database, Decision Making Support Systems, Data Mining, Database Design, Data warehousing, Systems Design

Hyderabad, India   Geethanjali College of Engineering and Technology   Aug 2017- May 2021

- **Bachelor of Technology (B.Tech) in Electrical and Electronics Engineering, CGPA: 8.22/10.0**

- **Relevant Courses:** Database Management Systems, Python, C Programming, Java, Introduction to Data Science.

Projects

➢ **Title: "Modeling Quality of Suggestions"**   **Aug 2023 – Dec 2023**
- Implemented a project aimed at optimizing the review process of employee suggestions within a large human resource company's online forum.
- Conducted thorough data analysis to identify anomalies, ensuring data integrity, and creating eye-catching engagement metric visuals.
- Utilized advanced machine-learning techniques to customize recommendations based on engagement metrics and content relevancy, resulting in a reduction of manual work and improved accuracy in staff input assessment.
- Investigated feature importance revealing insights beyond algorithms, such as the predictive power of upvotes on recommendation quality and the correlation between employee longevity and suggestion quality.

➢ **Title: "Baltimore Crime Analysis"**   **Sep 2023- Oct 2023**
- Led an initiative to redefine Crime Analysis in Baltimore by centralizing critical data and providing actionable insights to law enforcement officials swiftly and efficiently.
- Addresses challenges related to incomplete information and limited access to historical data, aiming to equip officials with comprehensive data analysis tools.
- Cleaned and processed messy datasets, addressing null values, missing data, and duplicates to ensure the integrity of the analysis.
- Employed sophisticated visualization tools like heat maps, geospatial mapping, and interactive dashboards to study crime-type distributions across time, facilitating data-driven decision-making for law enforcement.

➢ **Title: "Online Database Management System"**   **Aug 2023- Dec 2023**
- Led the development of a dynamic online marketplace platform aimed at competing with industry giants, employing Oracle database technologies and PL/SQL stored procedures.
- Designed and implemented PL/SQL stored procedures and functions to execute various operational tasks, including adding customers, managing credit card information, processing orders, generating invoices, and analyzing inventory and financial reports.
- Implemented complex business logic such as real-time inventory updates upon order placement, proactive customer notification regarding expiring credit cards, and identification of top-performing products and customers based on transactional data and reviews.
- Collaborated closely with team members to ensure seamless integration of each component, resulting in the successful development of a comprehensive online marketplace solution that met the customer's requirements and objectives.

➢ **Title: "Predictive Analysis for Satisfaction of Airline Passengers" Using the Decision-Making Methodologies**   **Feb 2023 – May 2023**
- Utilized decision-making methodologies to analyze an airline company dataset and predict customer satisfaction
- Conducted data cleaning and normalization procedures to ensure the accuracy and consistency of the dataset.
- Addressed missing data through appropriate handling techniques to maintain the integrity of the analysis.
- Provided strategic recommendations to the organization based on the analysis, enabling targeted efforts to enhance customer experience and satisfaction.

Languages, Technologies, and Frameworks

- **Programming Languages:** Python, Java, C, SQL, JavaScript, HTML, CSS
- **Version Control Systems:** Git
- **Integrated Development Environments (IDEs):** Visual Studio, Eclipse
- **Database Management Systems:** Microsoft SQL Server, PostgreSQL
- **Continuous Integration/ Continuous Deployment(CI/CD):** Jenkins, Azure DevOps
- **Testing Tools:** Java with Selenium, SoapUI, Postman
- **Frameworks:** React, TestNG, Page Object Model, Cucumber
- **Machine Learning Libraries:** Scikit-learn