NAAGA PRANATHI VUTUKURI

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EDUCATION

UNIVERSITY OF TEXAS AT DALLAS   Richardson, TX
Masters in Information Technology & Management, GPA: 3.4/4.0   May 2024
- **Relevant Coursework:** Object-oriented programming with Python, Data Management, System Analysis & Project Management, Agile Project Management, Data Visualization, Customer Relationship Management with Salesforce, Data Warehousing, Organizational Behavior, Innovation & Entrepreneurship

JNTUH COLLEGE OF ENGINEERING   Hyderabad, India
Bachelors in Information Technology, CGPA: 7.2/10   Jul 2021

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, HTML, CSS, SQL, C, C++, PHP, PySpark, XML.
Databases: SQL Server, MongoDB, No SQL Server, PostgreSQL Server
Tools & Technologies: AWS, Azure, Pandas, NumPy, Matplotlib, SDLC, ETL, Power BI, Tableau, Excel, RASA, Django, React, Redux, Angular, Express.js, Kubernetes, Git, Kafka, Java, Eclipse, SpringBoot, Apache Tomcat, Distributed Computing, Databricks, PyCharm.

EXPERIENCE

AMAZON.COM, INC.   Mountain View, California
Software Development Engineer – Java, JavaScript, AWS, Visual Studio, Viceroy, Rust, TypeScript, CI/CD Pipelines, Restful API's   Dec 2024 - Present
- Implemented CloudTrail integration to capture and audit critical API access patterns for the SeriesMetadata service.
- Conducted extensive load testing for new APIs to validate scale readiness and latency benchmarks under peak throughput conditions.
- Designed and configured custom CloudWatch alarms for ingestion pipelines and core APIs, improving observability and alerting.
- Delivered platform improvements including security validations, log group handling, and risk mitigation under ChangeGuardian compliance checks.
- Contributed to enabling OnePod support for high-throughput internal pipelines by designing staged rollouts across beta, gamma, and prod stacks.

SATEK IT SOLUTIONS LLC   Irving, Texas
Java Developer – Java, Kubernetes, Eclipse, Apache Tomcat, SQL, SpringBoot, React.js, Node.js, Express.js, Redux   Jul 2024 – Dec 2024
- Contributed significantly to the improvement of a Spring Boot website by restructuring controllers, POJOs, and DAOs, leading to a 15% increase in performance.
- Developed and integrated RESTful APIs using Java and Spring Boot, improving system connectivity with shipping partners and external services.
- Enhanced database efficiency by fine-tuning indices and restructuring complex SQL Server queries, reducing query execution time by 40%.
- Achieved a 50% increase in user interaction by implementing UI improvements in an e-commerce web application, utilizing React, Node.js, and Express.js.
- Substantially reduced website load times through the implementation of caching strategies and optimization of React components for enhanced rendering speed.

ONYX CENTERSOURCE   Dallas, Texas
Software Developer Intern – Python, PyCharm, Pandas, NumPy, SQL, Tableau, PostgreSQL, Excel   Aug 2023 - Dec 2023
- Developed an AI chatbot using RASA NLU, Python, and PostgreSQL, which automated 80% of customer interactions and reduced manual response effort by 50%.
- Implemented a system to record and store all chatbot interactions in a database, facilitating the analysis of customer inquiries and responses, and improving the chatbot's accuracy over time.
- Using sprint planning, created biweekly versions of responsive application to reflect users' augmentation requests.
- Integrated AI chatbot with GroupPay website, which increased customer self-service adoption, improved user engagement, and streamlined data collection process.
- Conducted performance testing on the chatbot system, simulating 1000+ daily user queries, ensuring 99.9% uptime and response times under 2 seconds.

SATKAARYA TECHNOLOGIES PVT LTD   Hyderabad, India
Software Developer - Python, Power Bi, SQL, Pandas, NumPy, Tableau, Spark, Jupyter, SDLC   Nov 2019 - Jul 2022
- Used Python (Pandas, NumPy, Matplotlib) for data cleaning and analysis, revealing customer behavior trends from large datasets.
- Implemented Spark and PySpark solutions for big data processing, reducing large-scale dataset processing time by 40%.
- Performed exploratory data analysis with Jupyter, driving data-informed strategies across the SDLC through cross-functional collaboration.
- Optimized SQL queries for ETL processes, boosting data pipeline efficiency by 30% and ensuring downstream data accuracy.
- Created interactive Power BI and Tableau dashboards, improving decision-making efficiency by 25% through actionable data insights.

SATKAARYA TECHNOLOGIES PVT LTD   Hyderabad, India
Software Engineer Intern - SQL, Tableau, Excel, ETL, Matplotlib   Jan 2019 - Aug 2019
- Developed, managed databases that support performance improvements activities and converted business objectives to analytical problems.
- Worked Cross functionally to maintain the integrity of the database and experienced in writing SQL queries for data retrieval & transformation.
- Performed data query, extraction, compilation and reporting tasks. Applied various excel functions to aggregate data.
- Visualized the data into various charts to understand the trend, patterns and correlations using tools such as Tableau.

PROJECTS

Onyx Center Source AI Chatbot - Python, Django, RASA, My SQL, Tableau
- Developed and integrated a RASA-based AI chatbot for GroupPay, increasing profits by 40% through improved data collection efficiency.
- Implemented database storage for all chatbot interactions, enabling ongoing analysis and continuous accuracy improvements.
- Visualized interaction data using Tableau and enhanced chatbot performance through in-depth conversation analysis and model fine-tuning.

Spoonful of Hyderabad - HTML, CSS, Bootstrap, JavaScript and XML
- Developed a digital marketing website for food bloggers where I designed and built the website.
- Our website helped them garner more followers on social media and provided them new business opportunities.

Ecostructive - Python, Django, MySQL, HTML, CSS, Power BI, PyCharm
- Created a web app for waste management, allowing user-specific garbage collection requests and predictive modeling for trend forecasting.
- Implemented maps, geocoding, and tracking features to locate recycling centers. Reduced costs and gained operational insights using Power BI dashboards.
- Implemented subscription models and targeted advertising to ensure financial viability while streamlining recycling through authorized collection teams.

eCompare - Web Scraping, Machine Learning for Voice Recognition and Text based search, MySQL, HTML, CSS
- Created a web app for waste management, allowing user-specific garbage collection requests and predictive modeling for trend forecasting.
- Utilized Power BI dashboards to gain operational insights, optimize routes, and reduce costs in waste management processes.
- Implemented subscription models and targeted advertising to ensure financial viability while streamlining recycling through authorized collection teams.

CERTIFICATIONS

AWS Certified Cloud Practitioner
Salesforce Certified Administrator
SQL for Data Science