Dheeraj Reddy Kukkala

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EXPERIENCE

Software Engineering Intern   Sep 2023 - Dec 2023
Rochester Institute of Technology   *Rochester, NY*
- Achieved a 40% increase in campus dining service efficiency and improved customer satisfaction with strategic adjustments
- Implemented **ETL** processes using **Microsoft Fabric**, **Power Query**, and **PowerBI** for seamless data integration and visualization, reducing manual data handling efforts by 60%
- Developed and implemented efficient data analysis algorithms using **PySpark Python** and **SQL**, resulting in a 50% reduction in data processing time and a 25% increase in analytical accuracy

Software Engineering Intern   Jun 2022 - Aug 2022
Excellus BCBS   *Rochester, NY*
- Automated monthly SSN verification between systems using **SQL Server** and **SSIS**, reducing claims processing time by 45%
- Developed and maintained SQL **stored procedures** and **views** for the finance team, cutting yearly report generation time by 50% and increasing accuracy
- Designed 30+ finance reporting visualizations using PowerBI, enhancing insights and decision-making efficiency

Software Engineer   Jan 2019 - Apr 2021
MAQSoftware   *Hyderabad, India*
- Spearheaded the development and integration of 20+ interactive user forms in **Dynamics 365** using **PowerApps** Portals, significantly enhancing customer experience by streamlining request submissions and support processes
- Incorporated **JavaScript** for custom client-side scripting and **Azure DevOps** for deployment and test case management, leading to a 30% improvement in response times for customer inquiries
- Employed **Agile** methodologies to ensure rapid development cycles and effective cross-functional team collaboration, optimizing form usability and backend integration
- Spearheaded a **DevOps** project focused on establishing and optimizing **CI/CD** pipelines, resulting in enhanced deployment processes and a 45% reduction in error rates through effective monitoring with **SQL** scripts

EDUCATION

Rochester Institute of Technology   Rochester, NY
Master of Science, Computer Science (Big Data Analytics specialization)   *Aug 2021 - Dec 2023*
Manipal Institute of Technology   Manipal, India
Bachelor of Computer Science   *Aug 2015 - Jun 2019*

TECHNICAL SKILLS

Languages: Python, Java, C#, .NET, JavaScript, NodeJS, C++, SQL, HTML, CSS, XML, C
Database: SQL Server, MySQL, MongoDB, Neo4J, H-2 Database, M Query, DAX Query
Data Tools: Azure DataBricks, Azure Data Factory, Power Query, Cosmos DB, PowerBI, SSIS, SSAS, Apache Spark
Other Tools: SharePoint, Dynamics 365, ArcGIS, Git, Docker, Power Automate, Microsoft Fabric, Git, SNOW, Kafka
Coursework: Algorithms, Big Data, Object Oriented Programming, Artificial Intelligence, DSA, Distributed Systems

PROJECTS

Pub-Sub Model | *Python, Docker*
- Created a highly scalable publish-subscribe messaging model using Docker, enabling seamless real-time communication and enhancing system reliability, resulting in a 30% reduction in response time

Reddit Firehose | *Java, Spring Boot, Kafka, Docker, Microservices*
- Designed Spring Boot microservices to extract data from Reddit's API and stream into Kafka
- Leveraged Docker compose to bring up Kafka cluster of multiple brokers
- Externalized configuration of entire application using Spring Cloud Config

Multi Person Video Conferencing Application | *Python, OpenCV*
- Created a multi-person video conferencing application to enable communication between multiple users simultaneously
- Leveraged Client-Server architecture along with multi-threading to stream video data across 4 clients

Craiglist Search | *MongoDB, FastAPI, Python, HTML, and JavaScript*
- Built a web application enabling users to search for cars on Craigslist by manufacturer or proximity (5km radius)
- Processed and stored data for over 5K+ vehicles, significantly improving search efficiency and user experience