

KIRAN KUMAR PANNUR SIVAJI

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EDUCATION

University of Missouri, Kansas City, Missouri
Master of Science in Computer Science,

May 2025
3.83 GPA

WORK EXPERIENCE

IT Support Assistant
UMKC, Kansas City, MO

Oct 2022 – May 2024

- Assisted with various clerical duties, including data entry, document management, and scheduling.
- Performed research and wrote reports on industry trends and market analysis.
- Attended and took important notes for meetings, contributing to strategic planning sessions.
- Provided support in the development of marketing materials and email campaigns.

Data Engineering Analyst | Accenture (Travelers Insurance Corporation)

Oct 2021 - Jul 2023

- Managed a diverse portfolio of over 150 databases, each with more than 200 database objects, tailored to meet business requirements.
- Engineered individualized CI/CD data pipelines for 50+ databases, reducing deployment time by 40% and enhancing database agility.
- Established application-specific warehouses in Snowflake, resulting in a 20% improvement in query performance and a 15% reduction in storage costs.
- Orchestrated the migration of over 2TB of data from an on-premises Teradata environment to Snowflake, ensuring minimal downtime and a seamless transition.
- Conducted thorough analysis and optimization of database and query performance, improving system efficiency and responsiveness.
- Developed interactive dashboards using Tableau to analyze user query behavior and associated costs, providing actionable insights into resource utilization and cost allocation.

TECHNICAL SKILLS

Hardware & Software: Advanced knowledge of PC components, imaging and replacing computers, proficiency with Microsoft 365 Apps.

Technical Support: Experience with Helpdesk ticketing systems, RDP, troubleshooting hardware/software issues.

Programming Languages: Python, Java, R, SQL, Bash/Shell scripting

Database Management Skills & Tools: Data Extraction, Data Warehousing, Data Normalization, Data Modeling, ETL/ELT, DataLake.

A/V Systems: Testing and configuring Webex and Teams environments.

Inventory Management: Maintaining accurate account and inventory records.

Communication: Strong verbal and written communication skills for technical matters.

PROJECTS

Financial Data Pipeline Optimization ProjectResponsibilities:

- Collaborated with business stakeholders to gather requirements and translate them into technical solutions.
- Developed ETL processes using SQL and Python to transform and load data from SQL Server to Snowflake DB.
- Implemented Prophecy DBT tools to create dimension and fact tables, improving data structuring and retrieval.
- Optimized existing stored procedures, reducing data processing time by 30%.
- Documented the entire ETL process and created source-to-target mappings, facilitating easier future maintenance and updates.
- **Technologies Used:** SQL, Python, Prophecy DBT, Snowflake, SQL Server

Healthcare Data Integration and Predictive Analytics System

- Developed a comprehensive data integration pipeline to aggregate and analyze healthcare data from various sources, including MIMIC-III, NHANES, and synthetic wearable data.
- Utilized AWS Glue for automated data ingestion and transformation, storing raw data in Amazon S3 and processed data in Amazon Redshift for efficient querying. Implemented batch processing with Amazon EMR to clean and standardize large datasets, enhancing data quality and consistency.
- Built and deployed machine learning models using Amazon SageMaker to predict patient readmission rates and disease progression.
- Created interactive dashboards with Amazon QuickSight to visualize key health metrics and predictive insights for healthcare providers.
- **Technologies Used:** AWS Glue, Amazon S3, Amazon Redshift, Amazon EMR, Amazon SageMaker, Amazon QuickSight

ACTIVITIES

Graduate Student Council Member: Participated in decision-making processes affecting graduate students.

Hackathon Participant: Competed in university and regional hackathons, developing innovative tech solutions within constrained time frames.

Tech Club Member: Engaged in discussions on emerging technologies and participated in workshops to enhance technical skills.

Data Science Club Member: Collaborated on data-driven projects, attended guest lectures, and participated in data challenges.

ACTIVITIES & ACHIEVEMENTS

- Represented the Computer Science Student Association, advocating for student interests and facilitating communication between students and faculty.
- Recipient of the Merit Holder Award from Accenture in recognition of outstanding performance.