NIHAR NAYAK

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EDUCATION

Master of Science in Computer Science   Graduating May 2025
Arizona State University, Tempe, AZ   4.00 GPA
Relevant coursework: Software Verification Validation and Testing, Data Processing At Scale, Data Mining, Data Visualization, Semantic Web Mining, Statistical Machine Learning, Engineering Blockchain

Bachelor of Technology in Computer Science   August 2021
Manipal Institute of Technology Manipal, India

TECHNICAL SKILLS

Programming: Python, Javascript, Go, Java, SQL
Databases and Cloud Platforms: SQL Server, MySQL, PostgreSQL, NoSQL, InfluxDB, AWS Redshift, Azure Synapse Analytics, Google BigQuery, Azure Databricks, Azure Data Factory, SSMS, Azure Data Lake
Tools, Frameworks and OS: Git, Postman, Docker, Flask, Django, NodeJS, Laravel, Cypress, Kubernetes, Visual Studio Code, ServiceNow, Microsoft Power Automate, Excel, Word, Powerpoint, Windows, macOS, Linux
Big Data Technologies: Data Warehousing, Machine Learning, D3.js, Pandas, Beautiful Soup, Apache Spark, Apache Airflow, scikit-learn, Power BI, Tableau

PROFESSIONAL EXPERIENCE

ICICI Lombard GIC Ltd, Mumbai, India: Senior Developer - EDW   August 2021 - August 2023
Led development and management of data pipelines. Architected and implemented a Data Lake using SQL and Python, streamlining data integration and management across the organization.
- Built ETL pipelines in Azure Data Factory and Azure Synapse Analytics, migrating 10+ terabytes of customer data from on-premise systems to a single consolidated Cloud Data Warehouse.
- Reduced storage costs by 90% and improved resource utilization by 50% through strategic table distribution, indexing, and partitioning in MSSQL and leveraging Parquet files to construct a Logical Data Warehouse.
- Developed advanced SQL stored procedures for data quality assurance and analytics, enhancing data integrity and achieving a 50% increase in query throughput compared to legacy systems.
- Mentored junior developers on system features and best practices and received the "Performance Frontier Award" in 2023 for outstanding contributions.

ICICI Lombard GIC Ltd, Mumbai, India: Technical Intern - Data Analytics   February 2021 - August 2021
- Migrated analytical dashboards from SAP to PowerBI, incorporating custom visualizations and advanced analytics, leading to a 20% reduction in data refresh times.
- Analyzed data using advanced visualizations and DAX queries to present narrative summaries to top management through compilation of charts, graphs, and tables.

OTHER WORK EXPERIENCE

Herberger institute of Design and the Arts IT, Tempe, AZ: Automation Analyst   July 2024 - Present
- Designing, debugging, and refactoring automations in Microsoft Power Automate, leveraging Postman to test REST API integrations, resulting in 50% faster computer deployments and reimbursements.
- Optimizing the organization's ServiceNow platform using JavaScript, enhancing operational efficiency by 20% while performing IT Service Management tasks and directly engaging with clients.

ACADEMIC PROJECTS

Time Series Database Optimization, Research Project   June 2024 - Present
- Conducting comprehensive benchmarking of InfluxDB using Time Series Benchmarking Suite to evaluate and interpret performance metrics.
- Implementing optimized log-structured merge trees to boost InfluxDB v1 performance in Golang, leading to a 10% improved big data ingestion rates.

Visualization Dashboard - IEEE Vast Challenge 2019 (Web Application))   August 2023 - December 2023
- Designed and developed an interactive web dashboard utilizing HTML, CSS, and JavaScript, featuring seven visualizations to analyze complex data from the IEEE VAST Challenge 2019.
- Incorporated five design principles to select effective visualizations and utilized D3.js for dynamic data representation, integrating custom JavaScript for advanced data processing.