

# Sai Durga Karthik Nandiraju

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## PROFESSIONAL EXPERIENCE

Barclays, USA

December 2022 - Present

Role: Software Engineer

- Develop bash scripts and improve performance of the ETL jobs including testing saving 50% of the application data load time
- Enable 30% faster actionable insights and the creation of a self-serve analytics platform, as measured by the management of over 800 TB of data using Autosys, AWS glue and Java based framework
- Implement Data Quality framework, emphasizing data governance, slashing data staleness by 90% and leading to an annual savings of \$80K and create indexes to improve query performance
- Automate financial product reports reducing report generation and email effort every Monday using python, Excel and T-SQL
- Enhance data visibility for better business decisions by adding additional trade data columns to Qlik view reports
- Automate bash scripts to facilitate log access required to start file beat service for display on elastic dashboard, completely removing manual effort for developers
- Remediate a security violation recognized by external auditors for a Kerberos based Java Spring boot application saving a potential \$100,000 audit fine

Tata Consultancy Services, USA

September 2019 - December 2022

Role: Software Engineer

Client: Walgreens, IL, USA

- Performed end to end testing of REST API's covering all customer marketing journeys using Python and Postman
- Collaborated with internal stake holders to accomplish the migration of business-critical applications from On-Prem to Azure cloud saving \$150,000 per year through 70% decrease in Hadoop server maintenance and scaling costs
- Debugged and fixed code errors on a Unix based raw data ingestion framework accounting to 10% defect decrease
- Developed SQL queries to analyze the customer sales data and build custom visualizations to reflect KPI's using Tableau and Excel increasing customer retention by 20%

Client: Vanguard, PA, USA

- Fixed the AWS glue job failures for financial reports, optimized python ETL code and ran CI/CD pipelines
- Optimized SQL query required to load marketing campaign data by accessing the Excel CSV feed using partitioning and compression improving data load time
- Cleaned financial data to maintain accuracy and consistency, using data imputation and outlier detection using PySpark

Carrier Software, USA

July 2019 - September 2019

Role: Software Developer Intern

- Created data visualizations in R studio using FMCSA data containing inspection data as part of exploratory data analysis
- Improved crash prediction accuracy to 70% by stacking logistic regression, random forest and KNN models
- Debugged application code to fix asynchronous function errors and created object-relational mapping to SQL database
- Performed data processing, removed null values, duplicate rows and normalized the datasets using python NumPy and pandas

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## EDUCATION

Master of Science in Management Information Systems

December 2018

University of Delaware, USA

Bachelor of Engineering in Production Engineering

June 2016

Osmania University, India

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## SKILLS

Python, T-SQL, PostgreSQL, ETL, Java, Unix, Excel, Bitbucket, AWS, Azure, Hadoop, GitHub