

VIDIT SINGH

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Summary

Data Engineer & Software Developer. In-Depth experience designing and developing solutions as per business user needs, outlining specifications, and driving implementation with on-time project delivery through collaboration with different development teams.

Work experience

Bridge Project (National Infrastructure Analysis) - University of Nebraska at Omaha

October 2022 - Present

Research Assistant

Working on the National Infrastructure Analysis Project (NIA), focusing on the development of a strategic bridge health monitoring solution. This solution is designed to guide the management, maintenance, and replacement programs of U.S. bridges without compromising public safety.

Utilizing MLflow in conjunction with libraries such as pandas, numpy, Scikit-learn, Seaborn, Matplotlib, and Jupyter notebook to establish comprehensive ML lifecycle pipelines. These pipelines will yield explainable model outputs based on the NBI and NBE data sets derived from the NIA project.

Manage extensive and intricate NBI and NBE datasets from National Infrastructure Analysis for strategic decision-making and predictive analysis, using data warehousing principles like Data integration, Data Cleaning and Quality Assurance, scalability, performance optimization, and metadata management.

Designed and developed a user-centric REST API using the Django REST framework, and enhanced data visualization on web interfaces using VueJS, Vuetify, and Tableau for an improved user experience.

Tata Consultancy Services

January 2022 - August 2022

Data Engineer

Facilitate the migration from the on-premises data warehouse and application to the Google cloud platform.

Schema conversion from target to source Databases. Set up and manage initial load and change data capture application for the continuously changing data.

Functional Domain: Travel and Hospitality

Application Languages: Python, Java, Go

Database: Postgres, My SQL, Oracle, Cloud SQL - Postgres, My SQL Instances

Tools: Striim, SQLines

Tata Consultancy Services

January 2018 - December 2021

Software Developer

Design and maintain VersaCold proprietary software solutions - P2 Warehouse management system as per client technical and business requirements.

Deployment Manager: Design proper deployment channel of new releases for QA, DR, and Production Servers from the central repository server.

Functional

Domain: Logistics and Warehousing Solution

Technology: Mainframe (AS400)

Languages: RPGLE (free format), CLP, Lansa, New Look Suite (loading 5250 screens to website)

Database: DB2, My SQL

Deployment tools: Thenon

Tata Consultancy Services

December 2016 - December 2017

Software Developer

Transformed requirements into project solutions through business research and analysis of data to build robust software designs, and participated in System Level Testing and User Acceptance Testing.

Functional

Domain: Insurance

Technology: Mainframe (AS400)

Achievements

- **Special Initiative Award** for Automating the manual process of Job setup for mailing Bill of Lading, Inventory status, Inward - Outward movement report reducing cost of per hour support from IT team.
- **Applause Award** for best release manager by configuring delivery pipeline for QA server and standing up for all the deployments, making them successful with zero roll backs and failure.
- **On the Spot Award** for handling two critical projects parallelly and delivering on-time with zero UT, UAT and QA defects. Thus, saving effort costs of 3.6 business days.
- **On the Spot Award** for Inventing a new method for debugging Lansa codes with technical expertise of AS400.
- **Service & Commitment Award** for continuous error free project deliveries over 5+ years.
- Selected by fellow Trainee Associates, Technical and Business Skill leads for **TCS LIREL Roll of Honor**. (LIREL - Leading change, Integrity, Respect for individual, Excellence, Learning and sharing)

Education

University of Nebraska at Omaha

Expected Grad: May 2024

Masters: Management Information Systems

Dr. APJ Abdul Kalam University, India

August 2012 - August 2016

Bachelors Of Technology in Computer Science

Qualifications

Skills & Expertise

Technical Project Management, Software Engineering, Software Development Lifecycle-SDLC
Database Management systems, Quality Assurance & Issue Resolution, Collaboration & Communication

Technology & Tools

MLflow | pandas | numpy | Scikit-learn | Seaborn | Matplotlib | Django | Django Rest framework | Vuejs | Python | Google Cloud Platform - Cloud SQL| AWS - S3 | AWS - EC2 | Jupyter Notebook | Tableau | Striim (Data Migration Tool) | Putty | Toad | JIRA | Confluence | Mainframe (AS400) | RPGLE | CLP | LANSA | Thenon (Deployment Tool for AS400) | Postgres| SQL| DB2 | Microsoft Teams| SharePoint | Microsoft Office

Certifications

Core Programming - C, C++, MySQL | NIIT - India | Certificate No - 14DLZZZZZ2192
Cloud Computing | MSME - Ministry of Micro, Small and Medium Enterprises, India
Associate Database Fundamentals | Microsoft Technology Associate | Certification No-F510-0906
Associate Software Development Fundamentals | Microsoft Technology Associate | Certification No- F452-3542