

VAISHALI KONDOJU

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SUMMARY:

Experienced Software Engineer with a focus on Data Science, specializing in creating scalable solutions within healthcare and technical domains. Currently pursuing a Master's in Applied Data Science at Indiana University, I combine software engineering expertise with analytics to deliver impactful, data-driven applications. Proficient in Oracle PL/SQL for performance-tuned healthcare systems and Python-based automation tools to optimize workflows. My collaborative approach and technical skills ensure user-focused solutions that drive efficiency and innovation.

EDUCATION:

Indiana University, Indianapolis, IN, USA 3.8/4.0 GPA
Master of Science in Applied Data Science Aug 2023 - May 2025

Jawaharlal Nehru Technological University, Hyderabad, India
Bachelor of Technology in Computer Science and Engineering Aug 2015 – May 2019

EXPERIENCE:

Project Lead & Graduate Research Assistant, Indiana University, Indianapolis, IN, USA Aug 2023 – Present

- **Leading the** Knowledge Indiana Project Team, overseeing research initiatives and coordinating data analytics efforts, including managing information through WordPress and working on various test cases in the Indianapolis Wikipedia.
- Worked on The Polis Center website for user testing, identifying usability issues and improving navigation efficiency.
- **Applied GIS techniques** in ArcGIS to analyze and manage geographic data for **urban studies**, optimizing spatial data workflows and improving accessibility for policymakers.

Software Engineer, Tata Consultancy Services, Hyderabad, India Aug 2022 - July 2023

- Developed **Python scripts** to extract, process, and visualize real-time network performance metrics, **reducing** report generation time from **2 hours to 10 minutes**, accelerating business decision-making and improving operational visibility by **40%**.
- Designed and optimized **SQL scripts** to fetch, validate, and preprocess network device lists, reducing data inconsistencies by **95%** and ensuring accurate processing for downstream operations.
- Automated network device discovery and polling by developing a **Perl script**, increasing monitoring efficiency by **80%** and reducing manual effort by over **50** hours per month, enhancing network reliability.

Software Engineer, Optum Global Solutions (UHG), Hyderabad, India Aug 2019 - Aug 2022

- Developed a **Python-based automation tool** to mock healthcare claims from the production to the test environment, enabling testers to validate real-world data scenarios and **reducing manual test case creation time by 70%**.
- Contributed to the development of a **web-based portal** that fetched and displayed healthcare data from PL/SQL, enabling the business team to track data without direct database access.
- Worked on HTML, CSS, and PL/SQL queries, along with TypeScript for data mapping, ensuring seamless integration with APIs and **improving accessibility by 60%**.
- Engineered and optimized SQL queries and stored procedures to process **837 healthcare claims data**, improving claims processing efficiency by **90%**.

TECHNICAL SKILLS:

- **Languages and Databases:** Python, Java, R, Perl, Oracle PL/SQL, Spark SQL.
- **Web development/Cloud:** HTML, CSS, PHP, JavaScript, React, AWS.
- **Technologies and Methodologies:** Agile Methodologies, Geographic Information Analysis (GIS), Machine Learning (ML), Data Analytics, Data Science (DS), Business Intelligence (BI).
- **Tools and Platforms:** Tableau, Power BI, Git, Jenkins, VBA, ArcGIS
- **Computer Science Fundamentals:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Design Analysis, software Development Life Cycle (SDLC).

PROJECTS:

- 1) **Employee Tracking System – 3-Tier Web Application** | *HTML, CSS, PHP, JavaScript, SQL, DMBS principles*
 - Designed and implemented a secure, role-based employee management system with four user types—HR, Manager, Employee, and Super Admin—enhancing organizational efficiency and HR process visibility.
 - Developed user modules for login, registration, attendance tracking, leave management, and training workflows, supporting CRUD operations and real-time data access.
- 2) **BRFF Nutrition Obesity Database Design** | *SQL, DMBS principles*
 - Designed and implemented the BRFFS Nutrition Obesity database using SQL Developer and Draw.io for ER diagram, creating a normalized database schema to store and analyze nutrition and obesity data from 10,000 respondents.
 - Leveraged DBMS principles (normalization, indexing) to optimize database performance and reduce redundancy, leading to more streamlined data operations.
- 3) **Personalized Movie Recommendation System** | *Python, ML, Spark SQL, Flask, HTML, CSS, JavaScript*
 - Conducted a comprehensive GIS analysis using ArcGIS Pro to map healthcare facilities, including hospitals, clinics, and emergency food services, enhancing healthcare access visibility in underserved communities.
 - Performed advanced spatial analysis (e.g., buffer analysis, proximity calculations), identifying gaps in healthcare services and recommending 5 new clinic locations to meet demand in underserved areas.

CERTIFICATIONS:

IBM Data Science & AI Certificate (Issued by [IBM](#))