

Utkarsh Kumar

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Profile

Systems Engineer with experience in Data Warehouse Testing. Proficient in optimizing SQL queries, Big Data technologies, and utilizing data visualization tools to deliver actionable insights for informed business decision-making. Skilled in DevOps methodologies, Cloud platforms, and automation testing tools like Selenium. Experienced in Python, Java, and scripting languages with a solid foundation in OOP and machine learning. Understanding of software development lifecycle (SDLC) and SCRUM Agile methodologies to work collaboratively in cross-functional fast-paced team environment. Excellent written and verbal communication skills, strong problem-solving and analytical abilities, and willingness to learn new skills.

Professional Experience

Systems Engineer Trainee, Infosys Limited

08/2022 – 02/2023 | Mysore, India

- Performed data warehousing operations using Big Data technologies and ETL processes to extract, transform, and load data from diverse sources while ensuring data quality and integrity.
- Documented data processes and pipeline architectures along with optimizing data processing workflows.
- Developed and maintained automated test scripts, test plan and test cases for web applications.
- Collaborated with the teams to review business requirements, deliverables and stakeholder management.
- Wrote well-designed code using best industry practices, along with troubleshooting and debugging.

Projects

Flappy Bird Game using Python with PyGame:

- Created an interactive Flappy Bird game using Python and the PyGame library.
- Designed game mechanics, user controls, collision detection and scoring algorithms for immersive gameplay.

Customer and Sale insight Dashboard using ETL:

- Extracted data, executed mappings between corresponding source and target in PowerCenter Designer.
- Performed essential data transformations to meet the requirements, resulting in 15% improvement in data quality and accuracy.
- Loaded transformed data into the target database via data pipeline, ensuring data relationships and constraints remained maintained.
- Streamlined migration with SQL Server tools, leading to 20% efficiency in data management and 20% reduction in processing time.
- Technologies Used: Informatica PowerCenter, MS SQL Server, MS Excel.

DevOps - CI/CD Pipeline creation and Implementation:

- Automated Continuous Integration and Continuous Delivery pipeline stages with Git integration for efficiency.
- Designed pipeline architecture for source code integration, build automation, deployment and monitoring.
- Orchestrated Docker and Kubernetes deployments to ensure consistent application delivery.
- Technologies Used: Docker, Kubernetes, GitHub.

Python Flask Application deployment to OKE:

- Containerized Python Flask applications using Docker and deployed on Oracle Kubernetes Engine.
- Created Kubernetes manifests for application deployment, scaling and resource allocation.
- Implemented automated updates and version control systems.
- Technologies Used: Kubernetes, Docker, Oracle Kubernetes Engine (OKE).

Education

Bachelor's degree in Electronics and Communication Engineering (B.Tech), Galgotias University

05/2022 | Greater Noida

Certificates

- Programming fundamentals Using Python
- Oracle Cloud Infrastructure DevOps Professional
- Cloud Computing basics
- Introduction to Unix and Shell Scripting

Achievements

- 6*(Gold badge) in Problem solving, 5*(Gold badge) in Java , SQL, Python on Hackerrank.
- Solved 500+ problems across coding platforms like Hackerrank and Leetcode.
- Ranked under 2100 out of 18250 participants in CodeChef February long challenge.

Skills

Programming Languages

- Java
- Python

RDBMS

- Oracle PL/SQL
- Microsoft SQL Server

Machine Learning

- Numpy
- Pandas
- Matplotlib

Big Data

- Apache Hadoop
- Apache Hive

Shell Scripting

- Unix / Linux

Tools

ETL

Informatica PowerCenter

DevOps

- Kubernetes
- Docker
- Oracle Cloud

Testing

- Selenium WebDriver
- JUnit

Others

- Microsoft Power BI
- Microsoft Excel