DINJU VATTAVAYALIL JOSEPH

Data Engineer | Python | SQL | Microsoft Fabric | Apache Airflow

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PROFESSIONAL SUMMARY

Data Engineer with 5+ years of combined data and software engineering experience and an MSc in Data Science and AI (Distinction). Specialises in building, automating and optimising ETL/ELT pipelines with Python, SQL, Microsoft Fabric and Apache Airflow. Currently delivers data integration and reporting solutions for major UK fleet and vehicle-maintenance clients. Works closely with cross-functional teams and clients to turn business needs into reliable, scalable data solutions.

CORE SKILLS

Data Engineering: ETL/ELT Pipelines, Data Integration, Data Transformation, Pipeline Automation, Data Warehousing, Data Quality

Platforms & Cloud: Microsoft Fabric (Dataflows Gen2, Notebooks), OneLake, SharePoint, Apache Airflow, Azure, AWS, Docker, VisualCron

Languages: Python, SQL, PySpark, PHP, JavaScript, jQuery, JSON, C, C++, HTML5, CSS

Databases: Microsoft SQL Server, MySQL, MongoDB, Neo4j, SQLite; SQL Query Optimisation, Stored Procedures, Dynamic SQL

Analytics & ML: Pandas, Power Query, Power BI, Microsoft Excel, Machine Learning, Weka, Jupyter Notebook, Google Colab

Tools & Frameworks: Git, GitHub, Jira, SSMS, DBeaver, HeidiSQL, Django, Laravel

PROFESSIONAL EXPERIENCE

Data Engineer — April 2024 – Present

i247 Group | Poole, Dorset, UK

- Design, build and automate ETL/ELT pipelines and data workflows using Python, SQL, Microsoft Fabric (Dataflows Gen2 and Notebooks) and Apache Airflow, delivering reliable, scheduled data flows to clients.
- Integrate data from SQL Server, SharePoint, APIs and external systems into Microsoft Fabric and OneLake, ensuring accurate and timely delivery to downstream reporting.
- Write and optimise complex SQL queries, stored procedures and dynamic SQL, reducing execution times and resource usage.
- Automate recurring reports, eliminating manual intervention and speeding up business processes.
- Resolve data quality and pipeline issues with cross-functional teams, improving the accuracy and reliability of data across systems.
- Deliver data processing, integration and reporting solutions for Babcock, Athlon, LeasePlan, LEX, Zenith, Ayvens Uptime and many more, supporting fleet and vehicle maintenance operations.

Software Engineer — July 2019 – July 2022

Maxwell GeoSystems India Pvt. Ltd | Kerala, India

- Led acquisition and analysis of real-time instrumentation data from major construction projects (HS2 S1/S2 Tunnels London, Kuala Lumpur Metro Phase 2, CYP Australia) using the Mission OS web application, turning raw data files into records, graphs and reports.
- Designed and implemented new Mission OS features that extended the platform's functionality.
- Managed MySQL databases to support efficient data handling and reporting.
- Provided technical support to clients and ensured code quality through thorough testing, supporting client satisfaction and project success.
- Maintained software development documentation to enable smooth project handover and knowledge transfer.

EDUCATION

MSc Data Science and AI (Computer Science) — October 2023
Bournemouth University | First Class Honours with Distinction

Master of Science, Computer Applications — May 2019
Amal Jyothi College of Engineering, Kerala, India | First Class Honours

Bachelor of Science, Computer Applications — June 2017
Amal Jyothi College of Engineering, Kerala, India | First Class Honours

CERTIFICATIONS

- Red Hat Certified System Administrator (RHCSA) – Certification ID: 180-266-017
- RHCE Trained

SELECTED PROJECT

TailWise AI – Pet Dog Behaviour Monitoring and Breed Identification (MSc Dissertation): Deep learning system for dog breed identification, behaviour analysis and object detection, with applications in pet care, security and vet services.