

Arvind Swami Ganeshan | Data Engineer | Data Governance Specialist

Church Stretton, Shropshire, UK

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Right to Work in UK | Immediate Availability | Open to UK-Wide Relocation

Professional Summary

Data Engineer with over 5 years of experience delivering enterprise data pipelines, ETL workflows, and data governance frameworks for major UK and US clients including Lexis Nexis and BNP Paribas. Expertise in Python, SQL, Oracle PL/SQL, Apache Airflow, and Azure cloud infrastructure, with proven compliance delivery across GDPR, NIST, and ISO 27001 frameworks. Cranfield University MSc graduate with a strong track record of collaborating with cross-functional EMEA teams across Spanish and UK operations. Currently contributing to UK retail data operations and Generative AI consulting. Seeking Data Engineering or Data Governance Specialist roles in the UK.

Core Competencies

Data Engineering: Python, SQL, PL/SQL, Apache Spark, Apache Airflow, Apache Kafka, ETL/ELT, Data Modelling, Data Warehousing	Tools and Platforms: Oracle, Dynatrace, ServiceNow, Splunk, JIRA, Confluence, Power BI, Terraform
Cloud and DevOps: Microsoft Azure, Azure Data Factory, CI/CD, Jenkins, Ansible, Docker, Linux, Git	Methodologies: Agile, Scrum, ITIL, Waterfall, DevOps, DataOps
Data Governance: UK GDPR, ISO 27001, NIST, Data Quality Frameworks, Metadata Management, File Integrity Monitoring, Data Lineage	Soft Skills: Stakeholder Management, Cross-functional Collaboration, Technical Documentation, Team Leadership, EMEA Communication

UK Professional Experience

Outlier.ai (Remote)

UK

Generative AI Specialist and Code Optimisation Consultant

Feb 2025–Present

- Optimising enterprise Java and Python codebases for global clients, resolving critical compilation errors and improving code efficiency by 30 percent through AI-assisted refactoring techniques.
- Training and evaluating large language models on data engineering best practices including ETL design patterns, SQL optimisation, and cloud architecture principles.
- Recognised with Generalist badge for advanced prompt engineering and AI model evaluation capabilities across multiple technical domains.

Premier Convenience Store

Church Stretton, UK

Retail Data and Operations Analyst

Feb 2025–Present

- Managing end-to-end retail data operations including POS transaction analytics, supplier data pipelines, and automated inventory reconciliation systems ensuring zero-discrepancy financial reporting.
- Implementing data-driven demand forecasting and stock optimisation algorithms, reducing inventory wastage by 15 percent and improving supplier order accuracy.
- Ensuring full compliance with UK financial regulations, HMRC VAT reporting standards, and GDPR data handling requirements for all customer and transaction databases.

Muller Dairy UK

Shropshire

Operations Data Supervisor

Oct 2024–Jan 2025

- Managed real-time production data metrics and quality control logging using Manufacturing Execution Systems (MES), maintaining 99.8 percent data accuracy for operational efficiency analysis.
- Ensured HACCP compliance and batch traceability data integrity for regulatory audits and food safety reporting systems.
- Operated SCADA-adjacent monitoring systems for production scheduling and cold-chain temperature data validation pipelines.

Technical Experience

BNP Paribas (EMEA Operations)

Hybrid

Data Operations Engineer

Oct 2022–Sep 2023

- Served as technical liaison for Spanish and UK engineering teams, coordinating data infrastructure deployments across EMEA time zones with full GDPR and ISO 27001 compliance.
- Architected the IVELO automation platform using Python and Ansible, reducing deployment time by 85 percent from 8 hours to 1.5 hours and saving over 180 engineering hours quarterly.
- Managed data infrastructure for over 4,000 servers supporting UK and European banking operations with more than 50 Dynatrace monitoring dashboards for proactive incident detection.
- Led Global File Integrity Monitoring rollout across APAC, EMEA, and NAR regions for over 4,000 servers, achieving 100 percent NIST and ISO 27001 compliance within a 6-month regulatory deadline.
- Decommissioned 15 redundant servers and provisioned 5 high-demand nodes, optimising data infrastructure capacity by 25 percent.
- Led a team of 7 engineers, mentoring junior staff and presenting infrastructure strategy to VP-level stakeholders in Agile ceremonies.

Infosys Limited

Client: Lexis Nexis UK and US Legal Data

Systems Engineer (Progressive Roles)

Sep 2018–Sep 2022

- Resolved over 3,000 data incidents for UK and US legal data platforms maintaining 99.9 percent SLA compliance across a 4-year tenure serving one of the largest legal information providers globally.
- Executed zero-downtime Oracle database migration from 10g to 19c for critical UK legal databases with 99.9 percent data accuracy through PL/SQL stored procedures and automated audit functions.
- Led emergency Log4j security remediation across 20 Java applications, implementing patches and database hardening ensuring UK GDPR and Data Protection Act 2018 compliance.
- Automated 40 percent of data validation processes using Gherkin and TestComplete frameworks, reducing post-deployment incidents by 20 percent for UK legal information platforms.
- Developed complex PL/SQL ETL procedures for high-volume data extraction serving UK and US legal research platforms, ensuring compliance with international data sovereignty requirements.
- Developed Perl and Shell scripting automation for XML data pipelines supporting UK legal information platforms, reducing data processing time by 30 percent and supporting Mainframe-to-Linux modernisation initiatives.
- Maintained CI/CD pipelines using Jenkins and Git with ITIL-aligned change management via ServiceNow, aligning with UK financial services operational standards.
- Collaborated directly with London-based product owners on UK legal data standards, regulatory compliance, and platform delivery for UK barristers, solicitors, and financial compliance teams.
- Maintained data integrity for UK case law and regulatory databases, ensuring 99.9 percent uptime for critical British legal research infrastructure.

Education

Cranfield University

UK

MSc Management and Information Systems, Merit

2023–2024

Dissertation: Digital Twin Applications for Cybersecurity using NIST and ISO 27001 Frameworks.

St. Andrews College

Mumbai

BSc Information Technology, First Class Honours

2015–2018

Certifications

In Progress: IBM Data Engineering and Generative AI Professional Certificate

Completed: Cybersecurity Foundations: Data Governance and GRC

Splunk for Security Analytics

Vulnerability Management

Prompt Engineering for Generative AI

Project Management: Risk Management

Key Projects

IVELO Platform: Enterprise automation for over 30,000 server deployments across EMEA banking infrastructure using Python, Ansible, and Oracle validation. Delivered 85 percent deployment time reduction. GitHub: github.com/arvindswami014/ivel0

UK Legal Migration: Zero-downtime Oracle migration for Lexis Nexis UK legal databases ensuring Data Protection Act compliance and 99.9 percent accuracy via automated PL/SQL validation.

Global FIM Rollout: File Integrity Monitoring implementation across over 4,000 servers in 3 regions achieving 100 percent ISO 27001 compliance within 6-month regulatory deadline.

Additional Information

Clients Served: Lexis Nexis, BNP Paribas

Languages: English (IELTS 8.0), Hindi, Tamil

Awards: Infosys Insta Award (2019 and 2022), BNP Paribas Recognition Award, Outlier.ai Generalist Badge (2025)

Portfolio: github.com/arvindswami014