

MOE KO, BSc

Enterprise Technology Engineer / Software Engineer

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Summary

Results-driven software engineer with a strategic mindset and a strong focus on data-related fields. Experienced in data visualisation and analytics projects, with a proven track record of developing innovative solutions. Seeking to leverage advanced skills in management and data analysis to solve complex problems, create cutting-edge platforms, and design efficient data pipelines. Committed to driving organisational success through technology-driven insights and solutions.

SKILLS

- **Data Engineering:** ETL, Data Pipelines(beginner), Data Warehouse Design(beginner), SQL, NoSQL
- **Cloud Platforms:** Microsoft Azure (Azure DevOps, Logic Apps, Service Bus, Function, Blob Storage), AWS (Lambda, Step Functions, CloudWatch, CloudFormation, S3, Dynamo DB, EC2)
- **Programming:** Python, Shell Scripting
- **Big Data Technologies:** Spark (beginner), Kafka (beginner)
- **Data Visualisation:** PowerBI (advanced), Tableau (beginner), Splunk (advanced)
- **DevOps & Agile:** CI/CD, Git, Agile & DevOps Methodologies
- **Databases:** Postgres, MSSQL, MySQL
- **OS:** Linux, Windows
- **Other:** REST APIs, Automation, ITIL

WORK EXPERIENCE

Enterprise Technology Engineer

Infosys • London, United Kingdom

Aug 2022 - Present

- Spearheaded data pipeline optimisation by automating platform migration from Ansible Automation Platform to AWX. Designed and implemented **ETL processes** and **REST APIs** for credentials, teams, and projects, resulting in a 40% increase in data processing efficiency. Utilised **SQL**, **Python**, and RESTful services to create a data-driven authorisation workflow, improving **data governance** and reducing manual interventions by 60%.
- Architected and implemented a high-performance infrastructure with robust **CI/CD pipelines**, aligning complex technology solutions with organisational goals. This resulted in a 40% increase in deployment frequency, 35% reduction in mean time to recovery, and 99.9% system uptime.
- Engineered an **AI-powered** chatbot to streamline developer and support team operations, resulting in a 50% decrease in time spent on routine inquiries, 30% improvement in first-response time, and 25% reduction in escalated issues.
- Led cross-functional **data analysis** initiative to optimise user activity tracking and license management. Developed and implemented data ingestion strategies using **REST APIs** for user logs, created interactive **Splunk dashboards** with real-time API data for stakeholder decision-making, and performed predictive analysis to identify underutilised licenses. Efforts resulted in \$50,000 annual cost savings, 95% improvement in data accuracy through automated **ETL processes** and API integrations, and enhanced real-time alerting system for data pipeline failures.
- Spearheaded the development of "Attendify," a cross-platform mobile and web application using React Native and cloud database technology. This solution increased event attendance tracking accuracy by 95%, reduced event creation time by 60%, and improved overall user engagement by 40%, resulting in company-wide adoption and a 25% boost in event participation rates.

AWS re/Start Program

Tech Talent Academy • London, United Kingdom

Feb 2022 - Aug 2022

- Successfully completed a comprehensive IT Fundamentals and AWS Cloud training program, acquiring a solid foundation in essential IT skills and gaining practical experience with AWS services.
- Developed proficiency in Linux OS, Python, and Shell scripting, enabling efficient automation and problem-solving. Demonstrated a deep understanding of core AWS services such as EC2, S3, IAM, VPC, Lambda, CloudFormation, RDS, and Route53, including their configuration, monitoring, and support.
- Possess strong verbal and written communication skills, adept at explaining complex technical information to non-technical audiences.

Assistant Store Manager

Maître Choux • London, United Kingdom

Mar 2021 - May 2022

- Implemented innovative promotions to deliver store revenue.
- Kept inventory optimised to ensure low costs while maintaining product availability.
- Effectively managed payroll and timekeeping, including completion of the proper paperwork for new recruits and leavers.
- Reduced labor costs by 15% whilst maintaining excellent service and profit levels.
- Achieved increased financial performance within a year by 30%.

*more experiences on request

Education

AWS re/Start in Amazon Web Services (AWS)

Tech Talent Academy, London

Applied Data Science

Cambridge Spark, London

BSc (Hons) Business Information Technology

University of Greenwich, London

Certification

AWS Certified Cloud Practitioner

Become a Database Professional with SQL

Infosys Certified Angular Associate Certified

Infosys Certified Software Programmer using Java

Infosys Certified Basic Linux Administrator

Infosys Certified Python Associate

Infosys Certified Global Agile Developer Certification

Additional Skills

- Experience with geospatial data processing and management
- Strong problem-solving skills, adept at navigating complex challenges in data engineering
- Excellent communication skills, able to translate technical requirements for non-technical stakeholders
- Leadership and mentoring abilities, experienced in guiding and developing team members
- Adaptability and quick learning, particularly with new technologies and methodologies
- Collaborative mindset, skilled at working across different teams and departments
- Strong attention to detail, ensuring data accuracy and integrity
- Time management and prioritisation skills, capable of managing multiple projects simultaneously
- Analytical thinking, able to derive insights from complex datasets
- Stakeholder management, experienced in aligning technical solutions with business needs