

Kingsley Osime - IEEE

Senior Technologist & AI Strategist

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London, UK

Data driven Senior Technologist and AI Strategist with interests in complex systems in Finance, Defence, and the Consulting sector, additionally, cloud, greenfield projects, start-ups, digital transformation, and Artificial Intelligence.

Areas of Expertise

Cloud

Application Design

LLM Integration

Prototyping

Microservices

Testing

Automation

Webapps

Design patterns

Technical Proficiencies

Agentic Systems

AI Evaluation & Reliability

RAG Architecture

AI Systems Design

Automated Testing

Python

Nodejs

Pinecone

Generative AI

AI Performance OPTIMISATION

Prototyping

Problem Solving

Prompt Engineering

Java (Spring Boot)

Chroma

LLM Integration

Agile Delivery

CI/CD

Git/GitHub

LANGCHAIN

JAVASCRIPT

JUPYTER

Professional Experience

Capgemini - London, United Kingdom

Nov 2025 – Feb 2026 Senior Engineer – Burger King

AI-enabled Operational Platform (Burger King UK)

Led full-stack development for Phase 2 of an AI-enabled platform designed to improve equipment maintenance and operational efficiency across Burger King stores.

The platform leveraged AI to enable store managers to diagnose, maintain, and repair equipment, reducing unnecessary engineer callouts and improving operational resilience.

Phase 2 focused on scaling the platform from ~100 to 300+ stores, improving accuracy, expanding content coverage, and establishing a long-term support and adoption model.

Key Contributions

- **Led development of AI system enhancements**, improving response accuracy, reliability, and content coverage across a growing user base
- Designed and implemented a **comprehensive automated testing and evaluation framework**, including:
 - LLM evaluation pipelines
 - Regression testing
 - Safety evaluation datasets
 - CI/CD-integrated validation workflows
- Built a **full LLM response caching layer from scratch**, including:
 - Batch generation tooling

- Cache routing architecture
 - Pre-generated response registry (80+ structured responses)
 - Frontend integration for performance OPTIMISATION
- Delivered improvements across:
 - System performance and latency
 - User experience and usability
 - Observability and monitoring
 - Security and error handling
- Contributed to **end-to-end system reliability**, including CI/CD pipelines, data workflows, and incremental platform improvements
- Participated in **client stakeholder engagement**, including weekly updates and technical walkthroughs of delivery progress

Impact

- Enabled **scalable deployment of AI-enabled operational support** across 300+ locations
- Reduced dependency on external engineers through improved **self-service capability**
- Improved **system performance, reliability, and adoption readiness**
- Established foundations for **long-term maintainability and support model**

Hippo Digital - London, United Kingdom
Senior Consultant - BBC

Aug 2025 – Nov 2025

Enterprise Data & Automation Platform (BBC)

Led the delivery of enhancements to the BBC's Diversity Tracking platform, a multi-stack, cloud-native system supporting organisation-wide reporting and analytics.

Focused on improving automation, usability, and operational efficiency, while ensuring the platform remained scalable, observable, and maintainable within a complex enterprise environment.

Key Contributions

- Designed and implemented **automated data publishing workflows** using Python and AWS Lambda, significantly reducing manual processing effort
- Re-architected core reporting components to improve **usability, accessibility, and stakeholder engagement**
- Delivered multiple features end-to-end across a **CONTAINERISED, cloud-native architecture (AWS ECS/Fargate)**
- Applied best practices in:
 - CI/CD and automated testing
 - Observability and monitoring
 - Incremental and iterative delivery
- Collaborated closely with product owners and stakeholders to align technical delivery with business objectives
- Supported live operations, including performance improvements, issue resolution, and release readiness

Impact

- Reduced manual reporting overhead through **automation at scale**

- Improved **user engagement and adoption** of DEI reporting tools
- Strengthened platform **reliability, maintainability, and observability**

Kainos - London, United Kingdom
Senior Software Engineer - Gen AI community Lead

June 2020 – Apr 2025

AI Systems & Enterprise Platform Delivery (Government & Defence)

Senior Software Engineer and GenAI Community Lead, delivering complex, cloud-native systems across government and defence sectors, while leading adoption of emerging AI technologies within the organisation.

Combined hands-on delivery with technical leadership, focusing on scalable system design, clean architecture, and integration of AI capabilities into enterprise environments.

Key Contributions

- Led implementation of **GenAI solutions**, including:
 - RAG-based systems using Azure OpenAI
 - AI-driven digital assistant ("Digital PANELLIST") integrated with avatar/video systems
- Designed and delivered **AI-enabled chatbot solutions** using Azure Bot Service, SPFx, and Copilot Studio
- Contributed to delivery of **large-scale, cloud-native platforms** using microservices architecture across Node, Java (Spring Boot), and React ecosystems
- Applied engineering best practices including:
 - Test-driven development (TDD) and BDD
 - CI/CD and automated pipelines
 - Clean architecture and SOLID principles
- Led knowledge sharing and community growth as **GenAI Community Lead**, driving adoption of AI technologies across teams
- Mentored engineers and supported capability development within the ORGANISATION

Impact

- Enabled adoption of **GenAI capabilities across enterprise contexts**
- Delivered production-ready systems in **highly regulated environments**
- Strengthened engineering standards and **AI capability across teams**

Thales Group - London, United Kingdom
Senior Software Engineer, Defence and Security Division

February 2023 – Oct 2023

Senior member of the Software Development Team at KAINOS, contracted by Thales Group to implement specific front-end capabilities and extend backend functionality through integrations with 3rd party system using JavaScript, node and Java based frameworks in a containerized clustered environment with CICD and life cycle orchestration and management activities. Led functional design workshops, system implementation, quality testing, building and deployment and version control activities. Engendered excellent working relationships, stakeholder management, and cross-peer collaboration. Ensuring work implementation aligns with ICD design in relation to feature and non-functional requirements like portability, consistency and efficiency in application development and deployment.

Completed phase two of a four-part deliverable implementing the Interface Control Document (ICD) for sensors and effectors

UK Government – London, United Kingdom

October 2020 – September 2022

Senior Software Engineer, Department for Environment Food and Rural Affairs

Senior member of the Software Development Team at KAINOS, contracted by the UK government to build, test deploy, maintain, and operate the Imports of Plants, Animals, Food and Feed System (IPAFFS). Managed, coached, and mentored peers on best practices, SOLID design principles, and clean architecture. Led design, construction, build, test, deploy and support activities in a highly complex cloud-based environment, with microservices, JavaScript, node, and SPRINGBOOT frameworks, CICD and groovy based pipeline library, asynchronous communication, and queues.

Completed multiple pieces of complex and essential functionality on the front and back end on Nodejs and SPRINGBOOT based applications.

3dInnovations Ltd., - London, United Kingdom

June 2018 – December 2019

Senior Software Developer and Technical Lead

Independent contractor, on fixed term contract as Senior Software Developer and TECHNICAL lead, for Financial Services Market Data company with responsibility for design, implement, build, test, operate and maintain integrations with 3rd party platforms, company app, website, servers, and relational databases.

Santander Bank - Milton Keynes, United Kingdom

January 2018 – May 2018

PaaS Consultant - RedHat

Independent consultant contracted by RedHat Inc. to help facilitate the transition of application services to from predominantly in-house to hybrid cloud – OpenShift.

Additional Experience

Software Engineer, American Express, 2015-2017

Freelance Java Developer, 2013-2015

Education

Master of Science in Cognitive Computing

University of London, 2011

Bachelor of Science in Multimedia Computing with Information Systems

Thames Valley University, 2002

Organizations & Certifications

AWS Solution Architecture Certification, 2022

Institute Of Electrical and Electronics Engineers – 2011