

# Curriculum Vitae

## Alexander Adu-Sarkodie

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GitHub - <https://github.com/kukuu?tab=repositories>

@London Tech Interview - [https://www.linkedin.com/posts/alfiegeorgewhattam\\_londontech-londontechnology-techlondon-ugcPost-6694141986187833344-vaOF](https://www.linkedin.com/posts/alfiegeorgewhattam_londontech-londontechnology-techlondon-ugcPost-6694141986187833344-vaOF)

## Experience

A result-oriented Software Engineer with over twenty years of industrial experience in Digital Transformation and Cloud Computing Technologies, Alexander has a background in Computer Systems Engineering and Data Communications (MSc Telematics). He has line managed, mentored and coached near and offshore teams in the UK, Austria, Spain, India, the US, Argentina, Slovenia, Estonia and Romania. His duties include Development, Technical Leadership, Architecture, Strategic Direction, People Management, Capacity Planning, Mentoring, Coaching, Stakeholder Management and Hiring.

Strong proficiency in Computer Science spans areas of data structures, algorithms, system architecture, resiliency, redundancy, and architecting scalable systems, focusing on fault tolerance and high availability to ensure minimal downtime.

Closely working with customers and stakeholders as a hands-on Development Manager, Alexander is accountable for the technical delivery and quality of the output of a globally distributed AGILE cross-functional teams (UI, Cloud Engineering, Artificial Intelligence, Data Science, DevOps, Platform Integration and QA), code reviews, test coverage, technical debt and overall quality optimisation and efficiency of the systems and solution design architecture. He is also responsible for development initiatives for project planning, execution, timeframes for review and releases, and developing engineering talent.

Team sizes have ranged from ten to fifty-five.

Alexander has previous experience in Mechanical Engineering (MSc).

## Projects

*Aerospace, Maritime, Defence, eCommerce, Public Services and Digital Broadcasting.*

- StrikeNet - The StrikeNet Digital Twin project for the UK Ministry of Defence (MOD) and the Defence industry developed a cutting-edge Digital Twin platform that serves as the Technical Authority for military and defence operations. This digital twin integrates advanced data analytics, real-time simulation, and AI to create a virtual representation of defence assets, systems, and operations, allowing for enhanced decision-making, predictive maintenance, and operational efficiency. By leveraging this technology, the MOD can optimise asset management, improve system reliability, and strengthen mission readiness while minimising costs and risks in complex defence environments.
- Non-Conformance Management Tracking (Repair Smart) software for the Aerospace Industry, Europe - A data harvesting AI engine for Quick Search for solution design templates which are reusable and automatically generated from stored procedures and algorithms. The software is designed to accelerate and automate repairs, reduce search time and improve efficiency.
- Obsolescence Enterprise Management System for UK Defence Industry - The software offers a comprehensive database containing detailed information on building materials, and electronic components, including specifications, lifecycle status and compliance data.
- FIFA World Cup 2022 - The platform is a Frontend self-serve AWS SaaS interface providing functionality for customers to send notifications to multiple devices. and work with cloud platform and SDK to deliver our unique service.
- AZZOTTO - <https://www.azzotto.com/>: A community digital broadcasting service platform in News, Entertainment, Education, Wealth Management, Advertising and Sports.
- LOVE JOINT: <https://www.lovejoint.store/> A Nutraceutical for Lifestyle & Healthy Living.
- Task Manager (CRM). <https://www.youtube.com/watch?v=4OFE2tiXK7g&t=149s>

- GCHQ & NCSC platforms: <https://www.gchq.gov.uk/> | <https://www.ncsc.gov.uk/> - Both platform provides strategies and support in securing businesses and personal data and provisioning a secure communication network between the government and its citizens, including cyber-security alerts against espionage.
- Marks & Spencer eCommerce platform- <https://www.marksandspencer.com/> - Delivered the technical framework and initiative for the digital transformation of Marks and Spencer's e-commerce platform from a coupled monolithic to a scalable micro-service omnichannel platform while ensuring the continuation and enhancements of services.

#### *Role:*

- Technical Leadership, Architectural and Strategic Direction and Hands-on Development.
- Building functional POCs, Digital Twins for Simulation, Predictive Analysis and Forecasting using AI and Low Code strategies.
- Facilitating development and software configuration planning, code reviews, identifying, tracking, removing and escalating impediments
- Developing the Role Based Access Control (RBAC), Authentication, and Authorisation for systems integration.
- Building API Backbone for data harvesting and reconciliation for systems integration - Backend and Frontend.
- Ensuring that programmes of systems developments are implemented coherently and consistently, liaising with IS, ICT and client/user management to ensure that planned systems developments are compatible.
- Leading AGILE Cross-functional teams and SPRINT cadences
- Writing Acceptance Criteria and Definitions of Done for QA, Testing and Release.
- Engaged in Discovery Workshops with stakeholders to gather requirements and User Stories and provide Technical Architectural and Design directions and Best Practices.
- Tracking and reporting objectives and key results (OKR) progress.
- Accountable for the optimisation and operations of the CI/CD and DevOps Pipelines.
- Acting as a Subject Matter Expert (SME), representing the technology team in discussions with senior management, clients, and external partners to articulate the value and capabilities of the developed solutions.
- Mentoring, Coaching and Hiring.
- Forecasting future resource requirements, and working with appropriate stakeholders to agree on future resourcing strategies.

#### *Business Impact:*

- Architecture and commissioning new digital simulation environments for the defence industry working in the capacity as part of the Technical Authority.
- Applications upgrade from unsupported technologies to address limitations & security.
- Cloud migration from single VM-based architecture to modern PaaS approach.
- Building reusable component-based unified solutions for all business units.
- Scaled Agile delivery using onshore and nearshore teams for competitive costs, and shortened app deployment timescale by 50%. Refined Workflows. Digitising to reduce complexity, and replace error-prone legacy systems.
- Maintain regulatory compliance.
- Maximising productivity (Task Manager application) - <https://www.youtube.com/watch?v=4OFE2tiXK7g&t=149s> . The application transforms your workflow, regardless of your industry or field-based service. Keep track of tasks, simplify task management, and client relationships, and boost productivity from filtering tasks to client communication, invoice creation, and advanced settings.
- Hitting deadlines.

## **Career History**

### **September 2023 - to date**

#### **Development Manager**

EXPLEO Digital Engineering & Technology  
80 Canon Street, London EC4N 0AN

### **June 2020 - September 2023**

#### **Head of Engineering**

Pushologies Limited  
Douglas, Isle of Man

### **Dec 2019 - May 2020**

#### **Chief Technological Officer**

Bearings Point Media, London (Contract)  
Kemp House, 160 City Road - London EC1V 2NX

### **September 2015 - November 2019: Contract**

**Head of Development** - Zaizi (Home Office, GCHQ, National Cybersecurity Council).  
Accountable for the redesign of the secure architectural platform for the GCHQ,.GOV.UK and NCSC.

**UI Development Lead** - Managed Services - Keytree

**Principal Software Engineer** - Flix Premiere, SONY PC.

### **January 2000 – July 2012**

**British Broadcasting Company (BBC)** - White City H/Q, London  
**Senior Software Engineer**

### **JAN. 1999 - to date:**

**Visiting Lecturer** – Business Computing - The City Literary Institute (<http://www.citylit.ac.uk/> )

Subject Area: Programming, Digital Transformation & Emerging Technologies

#### **Qualifications:**

- MSc Telematics (Computer Systems Engineering, Data Communications and Network Engineering.) - School of Electrical & Electronic Communications, Dept. of Computer Science, Middlesex University, London.

*Thesis:* Data Mining and Processing.

- MSc Engineering - Belarus State University, Minsk.
- Diploma Russian Language - Minsk, CIS
- Teacher Training Certificate (Adult Education) - UK. The City Lit Institute - London.

#### **Membership Professional Bodies:**

- Member British Computer Society (MBCS - UK)
- Member Institute of Learning (MifL - UK)
- Associate Member Institute of Engineers (AMIEng - UK)

**Other** - Bi-lingual, fluent in English, Russian and conversational French.