

# 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, and Stakeholder Management.

Alexander is accountable for the technical quality of the output of AGILE cross-functional technical teams (UI, Cloud Engineering, Artificial Intelligence, Data Science, DevOps, Platform Integration and QA), code quality, test coverage, technical debt and overall quality of the systems and solution design architecture. He is also responsible for development initiatives for project planning, execution, timeframes for review and releases, developing engineering talent, mentoring and coaching.

Team sizes have ranged from ten to fifty-five.

Alexander has previous experience in Mechanical Engineering (MSc) and worked at Ford Motors in Enfield, England where he did his internship for his MSc in Data Mining.

## Projects

*Aerospace, Maritime, Defence, eCommerce 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 BOM materials, and electronic components, including specifications, lifecycle status and compliance data.
- 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>

#### *Role:*

- Building functional POCs, Digital Twins for Simulation, Predictive Analysis and Forecasting using AI and Low Code strategies.
- Architecting and developing the Role Based Access Control (RBAC), and Authentication for the Backend.
- Developing API Backbone for data harvesting and reconciliation for both Backend and Frontend.
- Code reviews
- Leading AGILE and SPRINT cadences
- Helping to write 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, Best Practices and Unit Tests.
- 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.

#### *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.

## **Career History**

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

#### **Development Manager**

EXPLEO Digital Engineering & Technology  
80 Canon Street, London EC4N OAN

<https://expleo.com/global/en>

#### *Responsibilities:*

- Supporting e2e software development, architecture, code reviews, and technical leadership in AI-based innovation and Digital Transformation projects. Ensuring Best Practices, Governance and Compliance.
- Managing agile cross-functional teams in a multi-supplier environment e.g. StrikeNet, working in rainbow teams to share knowledge and ideas for selecting potential solutions.
- Working with a broad range of stakeholders, such as supplier/developer teams, business stakeholders and end users and demonstrating experience interfacing across the whole value chain to obtain a full picture of the project requirements. Supporting bids.
- Translating customer outcomes into credible plans, and evolving those plans as required within an agile environment.
- Hands-on development support and creating artefacts to support agile planning ceremonies and presenting a service roadmap at increment planning. Mentoring and Coaching.

### *Technologies:*

AI & NLP (OpenAI GPT-4, Co-Pilot, RASA- pen API for conversational platform), OOP (C#, PHP), NodeJS, JavaScript, Apache KAFKA, AWS, Visual Studio, AZURE, Google Cloud, Express, TypeScript, NextJS, Postgres SQL, REACT, REACT Testing Library, DevOps, GraphQL, CMS, Postman, Version Control, HTML5, SENTRY, JIRA, Combat Systems Technologies, Cybersecurity, IoT, Voice Assistants, NL Interfaces, Quantum Computing, Blockchain, AR and VR.

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

#### **Head of Engineering**

Pushologies Limited  
Douglas, Isle of Man

<https://pushologies.com/>

Pushologies is a technology business using notification platforms to push media content and assets to personal mobile devices, to drive engagement, user experience and sales.

The platform is a Frontend self-serve AWS SAAS interface providing functionality for customers to send notifications to multiple devices. and work with our cloud platform and SDK to deliver our unique service.

Head of Development FIFA+ World Cup 2022 notification SaaS platform which transmitted rich interactive media to millions of global audiences.

### *Responsibilities:*

- Architectural and strategic directions, technical leadership, end-to-end software development,
- Capacity planning, development initiatives for project execution, timeframes for review and releases, coaching and mentoring.
- Leading cross-functional Agile teams
- Mentoring, coaching
- People's management
- Working closely with UX and Product Owners to define user journeys, internal and external stakeholders
- Working with clients and key stakeholders (FIFA, Coca-Cola, NBA, Hilton, FA, LPGA).
- Ensuring technical documentation is written and constantly reviewed to support development and training, onboarding new Engineers.
- Keeping abreast of new technologies and improving internal systems (Engineering Council Forums)
- Hiring

### *Technologies:*

AWS Stack, NodeJS, Serverless, LAMBDA, PostgreSQL, TypeScript, REACT, REDUX, GraphQL, SENTRY, Sonar Cloud, Docker, TDD/CI/CD, InVision, Git/Bitbucket/GitFlow, JIRA, SLACK

**Dec 2019 - May 2020**

**Chief Technological Officer**

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

*Responsibilities:*

Working as a hands-on CTO (Startup), my duties included:

- Accountable for end-to-end software delivery, managing the overall technical quality of the output of agile development teams, including: functional, code quality, test coverage, technical debt and overall quality of the system design and solution architecture.
- Code writing, people's management, guidance, architectural and strategic engineering direction, capacity planning, technical leadership, development initiatives for project execution, timeframes for review and releases, developing engineering talent for social media engagement app, coaching and mentoring. Keeping abreast of new technologies and improving internal systems.
- Working closely with UX and Product Owners to define user journeys, interface features and also algorithms for designs, and wireframes. Ensuring designs are extensible and comply with standards and follow principles of KISS. Mobile first. Build prototypes. Engage AB/MVT.
- Ensuring technical documentation are constantly reviewed to support development and training, on-boarding new Engineers.

**Product - The ReadApp:**

The app offers a reading Lounge for groups, where each Lounge provides content central to its interests and invites or accepts requests to access and pay for content in its community. Members pay to read and can chat and share comments in a discussion thread. The variety of lounges envisaged caters to different interests and provides a space for every reader to find an armchair they feel comfortable in. Other features includes a NEWS API, Dashboard, Blogs, Editorials and Notification updates.

*Technologies:*

NodeJS, JavaScript, REACT/REACT Native, REDUX, TypeScript/NextJS, PostgreSQL, Digital Ocean, GraphQL/Apollo/HASURA, Docker/Kubernetes, TDD/Git/GitHub/CI/CD/JIRA, SLACK, Sentry/STRIPE, SIGIL/InVision, Android/iOS.

**September 2015 - November 2019: Contract**

**Head of Development** - Zaizi (Home Office, GCHQ, National Cybersecurity Council). Helped to develop a new secure architectural platform for the GCHQ, .GOV.UK and NCSC. The 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 to espionage.

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

**Principal Software Engineer** - Flix Premiere - <https://flixpremiere.com/> , SONY PC.

*Technologies*

NodeJS, Express, OOP, JavaScript Frameworks, Isomorphic JavaScript, REACT, NEXTJS, REDUX, Storybook, GatsbyJS, GraphQL, Webpack, Web-services, REST, Websocket, APIs, PostMan, JWT, TDD, XP, BDD, CI/CD, Jest, Enzyme, Chai, Gulp, Docker/Kubernetes, Mobile First, HTML5, Style Components(CSS-in-JS), MySQL, MongoDB. Crafter (Headless CMS).

**August 2012 – September 2015 :**

**Marks and Spencer**  
**Software Engineering Development Manager**  
<https://www.marksandspencer.com/>

As a member of the Strategic Leadership Technical Team at Marks and Spencer's e-commerce platform, I helped to establish Marks & Spencer's first in-house high-performance Engineering and Academy teams to support the business working as Software Engineering Manager.

Delivered the technical framework, and initiative for the digital transformation of Marks and Spencer from a coupled monolithic to a scalable omni-channel platform while ensuring the continuation and enhancements of services.

*Responsibilities:*

- Lead Developer iPad, omnichannel, Checkout and Loyalty schemes platforms
- Technical leadership across multiple Agile cross-functional teams. Hands-on development.
- Managing relationships across project teams within the business portfolios.
- Managing Performance of the Software Engineering team. Including offshore.
- Responsible for ensuring onboarding, Training & Development of the Software Engineering Team.
- Serving as Agile Coach, Advisor and continuously aligning team to business mission.
- Ensuring the provision of credible development platforms, Automated Testing, Quality Assurance, Build processes & Architecture, Tools for the teams and use of Best Practices in Agile/Waterfall development and Software Development Life Cycle (SDLC).
- Reporting on key delivery metrics including project progress and resource usage to business. Working with Platform and Release Management teams to ensure completion of process life cycle and delivery of product and engage with customer concerns.
- Working with offshore and third parties to supply development and content resources for M&S.com
- Career counselling managing expectations, 1-2-1, appraisals, mentoring and coaching Software Engineers.

*Technologies, and Development Practices:*

JavaScript, JavaScript OOP, AngularJS, NodeJS, GULP/GRUNT, Cordova, MySQL, WCS, AEM, XAMPP, BackboneJS, jQuery & jQuery Mobile, PHP, OOPHP (PHP5), BDD, TDD, HTML, HTML5, Bootstrap, Jenkins, GIT, CSS3, LESS, SASS, Responsive Design & Mobile Design, Lean Agile Development, Continuous Development, Continuous Integration.

**January 2000 – July 2012**

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

<https://www.bbc.co.uk/>

A member of the technical team that started digital broadcasting and transmissions on the Internet at the BBC. A pioneering revolution that changed the country. Alexander worked on the iPlayer as a Software Engineer then and was responsible for integrating the “Send to a Friend” module in 2007.

Projects:

News App - BBC Mobile Platform.

Learning – The National Curriculum, Great Britain: <http://www.bbc.co.uk/schoolradio/>

iPlayer – <http://www.bbc.co.uk/iplayer>

BBC News Interactive - Hull Centre , Broadband Interactive TV Platform.

**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.
- 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.