

# Alex Edwards

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## Professional Summary

Highly accomplished and results-oriented Senior Software Engineer with experience in building and scaling complex, distributed systems within a media and broadcasting environment. Proven ability to drive technical strategy, lead cross-functional teams, and champion architectural improvements that enhance performance, reliability, and developer productivity. Passionate about integrating security practices throughout the development lifecycle (DevSecOps) and prioritizing the developer experience; believing that usability is key to adoption. Expertise in modern cloud technologies, with a focus on knowledge sharing and impactful presentations to drive organizational improvements.

## Expertise and Skills

<b>Cloud Technologies</b>	AWS (EC2, VPC, Lambda, EC2, S3, CodeBuild, CodePipeline), Infrastructure as Code, Linux and Cloud Administration, Containerization (Docker, ECS, EKS)
<b>Programming Languages and Frameworks</b>	Node.js, Typescript, Go, Rust, Bash, React
<b>Architecture &amp; Design</b>	Distributed Systems, Microservices, Containerisation, Data Modeling, RESTful APIs, Cloud Security, Threat Modelling, Agile Methodologies
<b>DevOps &amp; CI/CD</b>	Git, Pipeline Automation, Security Champion
<b>Data &amp; Analytics</b>	Data Modeling, Data Aggregation, Data Delivery, Data Visualization, Performance Tuning
<b>Communication &amp; Collaboration</b>	Project Leadership, Technical Documentation, Knowledge Sharing Presentations, Agile Methodologies, ADR/RFC Processes

## Career Highlights

### Adopting and embracing the new product operational model

Led a strategic initiative to adopt a new internal platform engineering strategy, leveraging deep domain expertise and technical leadership to define reusable data processing modules and establish a pragmatic development approach across stakeholders. Proactively addressed ambiguity and drove adoption through targeted documentation and RFCs, establishing a foundation for improved data consistency and operational efficiency.

### DevSecOps enablement

Championed DevOps and SecOps best practices across my career, proactively collaborating with diverse teams to resolve critical CI/CD and infrastructure challenges, contributing to a culture of shared expertise and ensuring the long-term reliability and security of multiple systems.

### System Upgrade

Led a complex, multi-team upgrade of critical production dependencies, mitigating risks through thorough assessment and detailed planning, resulting in a smooth transition and increased operational efficiency while identifying and resolving critical post-deployment issues.

# Professional Experience

Senior Software Engineer

BBC, UK

2023 - Present

- Influenced organizational decisions and established clear understanding for stakeholder buy-in during ambiguous operating model changes.
- Accelerated chosen platform adoption via foundational knowledge sharing, clear objectives, and practical demonstrations.
- Introduced new architecture and infrastructure via industry-standard practices, implementing and delivering successfully to millions of users.
- Developed and delivered training materials and demonstrations on Linux, DevOps, and Cloud Security.
- Fostered a culture of shared expertise and collaboration across multiple organization teams.

Software Engineer

BBC, UK

2022 - 2023

- Maintained and improved core infrastructure, CI/CD Pipelines, and vulnerabilities, resulting in higher overall viability, less technical debt, and overall cost.
- Subject and domain expert for a bespoke testing framework across multiple teams and micro-frontends. Owned the complexity within, to better technical debt and an engineer's experience.
- Participation in multiple cross-team initiatives in design ideation, presentations, security, and DevOps.

Software Engineer

Imaginative Software Ltd, UK

2020 - 2022

- Agile development with an international client on an Education-based technology solution.
- Delivering secure API-based workflows for licensing and distributing music.
- On-site support to critical logistics and client demonstrations.

Web Developer

Ecolodge, Vietnam

2017

- Led on the development of a website for a local company to create an engaging presence in the market.
- Coordinated the project plan and scope to meet agreed milestones and targets within time and budgetary constraints.

Lead Developer

Coventry University, UK

2014

- Created and maintained a database-driven website based for a Media Exhibition using PHP and MySQL.

# Certifications

AWS Certified Solutions Architect - Professional (SAP-C02)	AWS	Target: Q1 2026
Security Engineering on AWS	QA	2024
Advanced Developing on AWS	QA	2024
Advanced Architecting on AWS	QA	2023
Threat Modelling	JB1	2023
SSL/TLS and Internet PKI	Feisty Duck	2022

# Education

BA (Hons.) Photography

Coventry University, UK

# Interests

DevSecOps, Home lab, Gen AI and ML, Embedded Systems, Home Automation, Reading High Fantasy and Sci-Fi