

Graham North BSc, BEng

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Summary

Experienced IT professional with over 15 years of expertise in cloud architecture, DevOps, data engineering, and AI/ML. Proven track record in leading digital transformation projects across public and private sectors. Skilled in AWS, Azure, GCP, microservices architecture, and CI/CD pipelines, with a strong focus on innovation, security, and delivering scalable, AI-driven, high-performance solutions. Experienced in leveraging AI/ML to enhance data analytics, optimize cloud operations, and implement intelligent automation for transformative business outcomes.

Professional Experience

Cloud Security Architect with AI/ML Expertise (July 2024 - current)

- Developed and maintained Rego policies for security and compliance within GCP, integrating AI/ML to enhance automated threat detection and vulnerability assessment.
- Architected secure microservices and containerized applications, leveraging Terraform for IaC and AI-driven optimizations.
- Conducted threat modeling and risk assessments, utilizing AI/ML tools to predict vulnerabilities and reinforce security.
- Collaborated on GCP-specific CI/CD pipeline integrations, automating security scans and incorporating AI for anomaly detection, ensuring compliance with industry standards and fostering a culture of security awareness.

Enterprise/Data AI Architect, MBDA (Dec 2023 - July 2024)

- Integrated cloud technologies with legacy systems for defense projects, leveraging AI/ML for enhanced data analytics and predictions.
- Developed a data governance framework focused on security, compliance, and AI-driven anomaly detection.
- Drove serverless computing, IaC, and AI/ML adoption to automate infrastructure and support advanced analytics.

Enterprise/Data Architect, HMRC (Feb 2023 - Aug 2023)

- Guided digital transformation, focusing on security and cloud migration.
- Designed Infrastructure as Code (IaC) using Terraform, enhancing deployment consistency.
- Enhanced data analytics with big data technologies.

Cloud/Data Architect, Department for Work and Pensions (Jun 2022 - Feb 2023)

- Architected a secure AWS environment, focusing on data processing.
- Implemented microservices architecture and optimized CI/CD pipelines.
- Collaborated with stakeholders to align technical solutions with business needs.

Cloud Architect/Engineer, AccessPay (Jan 2022 - Jun 2022)

- Led cloud migration of financial systems, enhancing scalability and security.
- Implemented performance monitoring and developed design documents for client alignment.

Cloud/SRE Architect/Engineer, Bought by Many (Sep 2021 - Jan 2022)

- Enhanced system reliability through automation and CI/CD pipelines.

- Supported cross-functional teams in adopting cloud solutions.

Cloud Architect/Engineer, PredictX (Jun 2021 - Sep 2021)

- Designed a GCP environment for big data, reducing operational costs.
- Engineered deployment pipelines and provided technical mentorship.

Cloud Architect/Engineer, HMRC (Sep 2020 - May 2021)

- Automated deployment processes for critical systems, ensuring security.
- Managed AWS resources and led collaborative coding workshops.

Cloud Architect and Engineering Manager, Nord Anglia Education (Feb 2020 - Aug 2020)

- Led a global transformation project, coordinating remote teams.
- Developed design documents and mentored development teams.

Cloud Technologies Coach/Mentor, NetLinux (Oct 2019 - Feb 2020)

- Mentored junior architects in cloud technologies.
- Developed and delivered training programs on Google Cloud Platform (GCP).

Cloud Architect and SecOps, Vodafone (Jul 2019 - Oct 2019)

- Deployed Vodafone's Big Data cloud offering, ensuring GDPR compliance.
- Led the design of customer management applications and coordinated the Scrum team.

Principal DevOps Engineer/Cloud Architect, Lloyds Banking Group (Nov 2018 - Jul 2019)

- Supported deployment of Lloyds' Open Banking platform.
- Led cloud architecture design on Azure and GCP.

DevOps Engineer/Architect, Campus Society/Connectt (Jul 2018 - Oct 2018)

- Transitioned social media platform to microservices-based architecture.
- Managed stakeholder relationships and supported major upgrades.

DevOps Engineer/Architect, QuintilesIMS (May 2017 - Mar 2018)

- Created a continuous deployment pipeline for medical data applications.
- Developed cloud migration strategies and enhanced infrastructure stability.

DevOps Technical Engineer/Architect, Secret Escapes (Feb 2017 - Apr 2017)

- Designed CI pipelines and improved product performance through automation.

Education

BSc Computer Science, Lancaster University, 1995 - 1998

BEng Mechanical/Electronic Engineering, University of Central Lancashire, 1992 - 1994

BTEC National Diploma in Electronic Engineering, Lancaster & Morecambe College, 1989 - 1992

Technical Skills

- **Cloud Platforms:** AWS, Azure, GCP
- **DevOps Tools:** Terraform, Ansible, Jenkins, Kubernetes, Docker
- **Programming:** Python, Bash, JavaScript, NodeJS

- **Data Architecture:** Snowflake, Databricks, Apache Hadoop
- **Operating Systems:** Linux (RedHat, Debian), Windows Server
- **Networking and Security:** TCP/IP, SSL/TLS, Firewall Management