Personal Skills

Delivery & Results Focussed
Enthusiasm & Passion
Problem Solving
Attention to Detail
Creative Reasoning
Analytical Reasoning
Mentoring/Lead by Example

AWS DevOps Professional ↗

Expires **Oct 2026**

Technical Expertise

Fullstack Dev & DevOps
Web & Mobile Apps
Large Scale Systems Dev
Data Driven Systems
Event Driven Systems
Containerisation
Virtualisation
Cloud & Private Hosting
Solutions Architecture
Technical Architecture
Enterprise Integration
Enterprise/App Security
Application Hosting
Application Development

Professional Expertise

AWS Cloud/Serverless
Agile Development
Lead Developer/Devops
Team Manager/Leader
Development Leader
Design Authority
Solution/Technical Architect
Project/Delivery Mgmt
Coaching & Mentoring

Professional

MIET (No. 25224171) - 1990

Technical Skills

terraform
nodejs/typescript inc jest
Linux
AWS CDK, CloudFormation
  & SAM
AWS APIGW inc velocity
AWS SNS/SQS
AWS Secrets Manager
AWS SES with templates
AWS S3 inc event
  integration

A passion for building solutions having extensive application, data, platform (on-prem and AWS) & infrastructure experience in the IT industry across the full software lifecycle, most significantly in automated deployment & app dev. Cross-skilled hands-on Lead Architect/Dev/DevOps working seamlessly across multi-disciplined, geographically dispersed customer, internal/project and supplier teams, quickly establishing confidence and trust for delivering complex secure IT solutions including mentoring others. Results focussed with agility, having a proven track record for leading quality solutions that focus on real business & user benefit, using strong analytical creative reasoning to overcome problems, all the while embracing change, tech debt and FinOps for continuous optimisation.

Principal AWS Consultant - appvia   June 2024 to now

Line Manager for three senior engineers; responsible for their daily well-being, personal and career development.

Led appvia's AWS Well Architected Framework (WAF) review, customising value proposition. Led deployment of AWS CID (FinOps CUDOS) dashboards for lead client liaising daily with client engineering team with a private secure copy of appvia's terraform CUDOS via gitlab pipeliens. Oct24 publicly presented "$hift L£ft" at DTX (ExCEL in London).

Tech Lead Engineer on Home Office contract, initially responsible for onboarding egress services, both engineers and legacy applications/services. Achievement was recognised by senior management, being asked to lead the modernisation of the platform workspace. Often stepping in to provide delivery, product, business analysis and architecture, mentoring new engineering team and assuring solution with other product teams, least not, security and identity mgmt. A fully automated solution across multiple AWS accounts, with terraform and custom python (BOTO3) gitlab pipelines, ansible (linux) customisation with ops platform including lambda and SSM (Fleet and State Manager) focusd on security, scalability and costs (FinOps) allowing migration from legacy workspace for 1000+ users. Innovated with "BYOdebian" for scalable assured customer workspace customisations.

Instrumental in shaping appvia's new cost optimisation direct to market proposition, working closely with the sales team to add value to client SoWs, all the time refining our delivery service model to accelerate other appvian engineers.

IT Contractor - WOZiTech Ltd   September 2016 to April 2024

Independent senior developer and devops on multi-skilled agile (scrum) projects.

Senior AWS Platform Engineer (framestore – 14 months – hybrid)
Contracted to a specialist division of framestore, providing large and small, public and corporate displays from Times Square to portable kiosks. Responsible for the full AWS platform including architecture, deployment and development of multiple restful serverless APIs (OpenAPI, Lambda, APIGW, CloudFront, Certificates and WAF) using AWS SSO (Cognito with SAML) across multiple AWS Ous (Landing Zones)/accounts. Integrated 3rd party APIs with S3 caching of data. Extensive AWS CDK implementation with zero handover. Providing support to permanent staff to learn new AWS skills; included documenting the solution and processes. Liaised with US Tier 1 investment back to integrate their Active Directory over SAML. AWS SSM on-prem integration with SSM Document automation. Led design and implementation of serverless digital asset optimisation backend service using AWS Steps Functions, SQS and lambda. Introduced AWS Backup across DynamoDB and S3 buckets, following an AWS Well Architected Framework review with AWS Solutions Architect. Dockerised Drupal app. Successful handover to permanent staff.

Senior Backend Engineer (motorway – 6 months – hybrid)
Contracted to motorway, to one of many multi-disciplined agile scrum squads to maintain microservice backend (20+ microservices) running as node.js with typescript against PostgreSQL and redis data stores. This included maintaining OpenAPI specifications and sequelize data models, unit tests, PR reviews and deployment to test and production environments. Documented the "Review App" capability used in test environment to deploy shadow microservices and provided direct support to other backend engineers. Within our squad, led spikes and live incidents. Volunteered to lead the migration of last but most critical web app from heroku top AWS. Nominated for most disruptive hackdays project.

Senior Developer (Digital Detox – 5 months – remote) - More info on online resume

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Platform API Engineer (News UK – 19 months – onsite and remote [covid era])

Contracted to News UK, to design, build and maintain Audio Platform; a secure GraphQL API in AWS for collating and presenting a common set of data for recognisable digital brands. Development, test, deployment and support, with mentoring (*8) and technical leadership. Typescript with 100% unit test coverage (jest), PACT Contract tests, CircleCI full automation build and deployment, docker/AWS EKS, Akamai Edge Caching of GraphQL with client specific Authorization (JWT) and migration to CloudFront custom cache.

Microservice Designer (photobox - 9 months – onsite) - *More info on online resume*
Senior API Engineer (Sopra Steria – 10 months - onsite) - *More info on online resume*

Contracted to Sopra Steria, to design & build a backend API to an Angular frontend application. An agile scrum project; fortnightly scrums cycles. Sole responsibility for the API introducing JWT for authentication and liasing with DevOps to deploy into GovCloud. Innovated with headless CMS using MongoDB (Atlas) for admin maintenance and AWS QuickSight for ops dashboards. Working closely with the UX team (Product, Design and engineers) yet also with end client of migration of data including client based work in Leeds. Took responsibility to lead the database migration (PostgreSQL).

DevOps Lead Engineer (Home Office – 15 months – onsite)

Mastered Jenkins and puppet for fully automated CI/CD across 100+ linux servers. Built a virtual (KVM) environment for puppetised guests, with custom PxE bootstrapping; able to provision a customer's fully functional test service within one hour. Crafted a "Developer's Release Dashboard" using JQuery and PostgreSQL JSON showing what version of application (+8) and components (100+) are deployed to which environment (30+) when and by whom. Technologies included: Jenkins, puppet, Nexus, Stash (BitBucket), Atlassian Crowd (SSO), Jira/Confluence installation/administration, KVM, PxE (tftp/iSCSI), Linux (RHEL).

Senior IT Consultant - CGI   September 1998 to August 2016

formerly logica formerly CMG - More info on online resume

Alongside client work, a People Manager for last 10 years at CGI, for a team of 8-10 other consultants at various levels in various locations across London, Reading and Leatherhead responsible for personal development and corporate ethics; included annual performance reviews and formal coaching & mentoring. Rode in two Princes Trust Palace to Palace charity rides promoting internally for others to join team ride.(corporate responsibility).

Various consulting roles over 20 years, mainly onsite with central UK government departments with developer, infrastructure, technical and solutions architecture and technical manager of 20 solutions and technical architects.

Innovated solution using Raspberry PIs to win contract and replace national infrastructure of court public displays mentoring a team of CGI apprentices; secured ITHC with only one medium vulnerability first time. Built and deployed a data onboarding solution integrating with Change Management approval for assured import & export of data from a restricted platform; secured ITHC with recognition the solution was fit for use on secret platforms. Implemented an assured secret accredited data exchange with European police network; others said it couldn't be done. Led complex migrations of users and applications, in addition to the modernisation of a critical court service application. Led the engineering team to build a private (onprem) data centre for hosting of secret applications. Most significantly, was instrumental in the virtualisation of an incumbent Sun Solaris application hosting environment to VMware and OpenSolaris (the incumbent said it couldn't be done) and even virtualising a legacy Tru64 onprem application to a data centre.

Internal Government Centre of Excellence (6 months) - *More info on online resume*
Central Government Department - 4 years - *More info on online resume*
Central Government Programme - 6 years - *More info on online resume*
Various roles/various Clients - 9 years - *More info on online resume*

Including Shell (five years), npower (remote client site - one year). Technologies included: JavaEE, WebSphere, C++, C#.NET, ASP, Oracle DB, AIX, DB2, Windows Server, SQLserver, OpenTrade (tibco equivalent).

Team Leader, Developer - MSI   May 1996 to Sept 1998

MSI (Mobile Systems Internal) More info on online resume

Software Engineer - Ferranti-Thomson Sonar Systems Ltd Oct 1994 to May 1996

More info on online resume