

**Personal Skills**

Delivery Focussed  
 Enthusiasm  
 Passion  
 Problem Solving  
 Attention to Detail  
 Creative Reasoning  
 Analytical Reasoning  
 Lead by Example

**Technical Expertise**

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

**Professional Expertise**

DevOps Lead Engineer  
 Agile Development  
 Team Manager/Leader  
 Development Leader  
 Design Authority  
 Solution Architect  
 Technical Architect  
 Project Management  
 Coaching & Mentoring

**Professional**

MIET (No. 25224171)  
 IET; since March 1990

**Technical Skills**

AWS Cloud/Serverless  
 AWS APIGW/Proxy/Keys  
 AWS SNS/SQS/Kinesis  
 AWS SES  
 AWS lambda/step function  
 AWS Cognito & IAM  
 AWS EC2/EKS/ALB/BeanStalk  
 AWS Cloudfront, Certificates  
 AWS Route53  
 Akamai Edge Server  
 kafka (non-commercial)  
 DynamoDB/DocumentDB  
 AngularJS/JQuery/React  
 nodeJS/jest  
 nest.js/GraphQL  
 Java/hibernate/springboot  
 Jenkins, Puppet Enterprise  
 Terraform, Ansible  
 Circle CI  
 JIRA/Confluence/Trello  
 Stash/BitBucket/git

An independent IT contractor with a passion for building solutions having extensive application, data & infrastructure experience in the IT industry across the full software lifecycle, most significantly in application development and deployment in International environments, most notably AWS, node.js and serverless. A cross-skilled hands-on Technical Solution Architect/Developer working seamlessly across multi-disciplined, geographically dispersed customer, internal, customer and supplier teams, quickly establishing confidence and trust for delivering complex IT solutions. Results focussed with agility, having a proven track record for delivering high quality solutions that focus on real business & user benefit, using strong analytical & creative reasoning to overcome problems, all the while embracing change for continuous improvement. More than just a vocation, promotes IT Enablement. Computing is both a profession and a hobby, keeping abreast of latest technology and supporting talent progression.

**IT Contractor (WOZiTech Ltd)****September 2016 to present****Platform API Engineer (Concurrent)****Nov 2019 to present**

Contracted to News UK, first onsite then owing to pandemic fully remote, to design, build and maintain Audio Platform a secure GraphQL API for collating and presenting a common set of data for recognisable digital brands including talkSPORT, Times Radio and Virgin Radio. Development, test, deployment and support, with mentoring (\*8) and technical leadership.

A set of microservices (nodejs/typescript/fully automated unit/components via jest) hosted primarily on AWS EKS with complementary AWS services, viz. S3 with Cloudfront (CDN, Certificates/Route53 and DocumentDB, fully provisioned via terraform and deployed using Circle CI with some legacy Jenkins. terraform provisioning included maintaining New Relic monitoring traces and alert conditions and fine grained IAM roles and policies, across multiple AWS accounts. Local (dev) AWS access via OKTA single sign with multiple roles.

This is an agile (fortnightly scrum) project split across multiple locations, including London and Sofia (Bulgaria), with all the usual ceremonies including, daily stands up, weekly refinements, planning, showcases and retrospectives. With an eye for detail, a key contributor to the backlog. With broad experience and a keenness to collaborate, often praised for thoroughness of spikes. With a delivery focus, invariably complete sprint goals. With engineering discipline, established good practices for repeated high quality releases. Regular pair programming sessions, first when I arrived and then as I became the mentor to new joiners. Provided input on permanent staff performance reviews. By knowing the subject and the audience, made showcases fun. Ready to jump on a whiteboard, even while working at home during 20/21 pandemic.

Introduced AWS tags & Kubernetes labels on all resources across all environments, to allow for the reporting of resources on a shared AWS account, using terraform and kustomize. Extended Kong (API Gateway), with rate limiting, and Auth0 "jwt" authentication against Graph API microservice. Implemented GraphQL with Authorisation header (Auth0 JWT token) edge caching working directly with the Akamai technical consultants, including a stale data workaround. And lately, supporting migration of custom cache to AWS CloudFront. *More info on online resume.*

Not just audio platform, the team responsibilities included rotating on to an internal middleware team, working with a custom mobile app team (Android and iOS). Still node.js with jest based unit and component testing but now with integrated PACT contract tests still via Circle CI in AWS EKS. Spearheaded changes to transition from engineer rotation to a single platform team working across both Audio Platform and Middleware. This included definition of roles and activities, knowledge transfer (combined stand ups and refinements), mentoring and pairing build knowledge across the team.

**Technical Lead (Concurrent)****April 2020 to present**

French Estate agent startup, to revolutionise private sales ([www.achetemoifrance.com](http://www.achetemoifrance.com)). Inherited the development of an i18n Java spring boot, thymeleaf and PostgreSQL web application. Quickly established a separate dev and test environment and a product board (trello), with bug and feature backlog. Introduced daily stand up and established priority driven set of tasks (agile kanban). Sourced, recruited and onboarded Java freelancers via upwork, operating as scrum master, QA and release manager, responsible for preparing and deploying releases in test, showcases and production deployment.

Production environment inherited was AWS ElasticBeanStalk EC2 with RDS and S3 (for both private and public assets). Test environment provisioned on home server using existing vagrant, ansible and KVM combo, presented via nginx proxy with DDNS and LetsEncrypt TLS.

Established a serverless backend (serverless framework/node.js) with terraform provisioning of fine grained AWS IAM resources; daily currency import, rep task maintenance and multi-language email templates using AWS lambda, step functions, CloudWatch Rules, SES and SNS. Import and export integration with 3<sup>rd</sup> party, with secure separation between Internet and database. Combination of batch async and synchronous processing owing to limitations in apimo restful API. Further extension to backend to provide a public listings API (both JSON and XML) using AWS APIGW via existing serverless framework.

Onboarded both a national French and International Property portal, observing GDPR handling on personal data with automation via Zapier to AWS SNS. Now able to undertake much of the springboot/thymeleaf changes myself, which includes having integrated Google recaptcha for login, registration and password reset following monitoring of application activity from dubious sources.

Ionic/Capacitor  
JSON, XML, XSD and XSLt  
New Relic monitoring/alerts  
Linux/UNIX  
Windows Desktops/Servers  
Networks (Enterprise)  
vmware/Citrix/KVM  
**Vagrant/KVM**  
Web Services & SOA  
SQL DB including MySQL &  
PostgresSQL  
NoSQL DB MongoDB & Slack  
Integration  
Many COTS & GOTS  
Many Bespoke applications

## Personal Details



London, UK

Address on request



Contact numbers on request



jobs@anglo-dutch.me.uk



1972



Full UK Driving License



British

Full UK Passport



SC/DV Clearable  
UK DBS Vetted

## AWS Solution Architect & Developer Associate

### 1994 Master of Engineering (MEng)

Electrical & Electronic Engineer at Loughborough University of Technology

### 1990 5\* A-levels (3\* Grade A, 2\* Grade B)

Pure Mathematics, Applied Mathematics, Pure & Applied Mathematics, Physics and Electronics

### Interests & Hobbies

DIY, Gardening, Computing

References are available on request.

### Technical Lead (Concurrent) - More info on online resume

Aug 2020 to Jan 2021

UK Estate agent (FIND IT 360) start up (<https://dt5u06afskblg.cloudfront.net/>). Agile development (kanban); responsible for identifying, refining, estimating and prioritising backlog, release preparation and deployment, showcasing, and invoicing.

Mobile first, ReactJS web application with redux. Leading two ReactJS UK freelancers (mentoring, pair programming and code review); testing and merging of their code. Data served via AWS S3 accelerated using AWS CloudFront secured by AWS Certificates with registration/RBAC login via AWS Cognito and integrated facebook and Google Analytics. Cross browser/platform testing using browserstack. API provided by AWS APIGW secured via Cognito JWT. Developed and deployed using "serverless framework" lambda (nodejs) consuming AWS SES for email notifications. Separate dev, test, acceptance and production environments (AWS Route53), provisioned by terraform and locked down via fine grained AWS IAM roles/policies. Integrated Ionic framework with Capacitor provisioning iOS and Android apps, including setup and configuration of App Store/Play Store accounts with tester distribution. QRcode treasure hunt promotion. Innovative swipe left/right (tinder style) property portfolio.

### Backend API Developer - More info on online resume

Dec 2018 to Sept 2019

Contracted to Sopra Steria UK, agile (scrum) as backend API designer and developer (nodejs) with full responsibility translating requirements to API deployment, consumed by Angular SPA) deployed on Gov PaaS covering API namespace, JSON schema, endpoint security (JWT), transactions & idempotency. Datastore postgres; responsible for the schema design, patching and mapping through API to JSON schema. Included substantial property level change audit logging. Secured clean ITHC report.

Introduced AWS SNS, Secrets & Lambda for workflow integration with Slack (webhook, slash commands & dialogs). Demonstrated AWS QuickSight for analytic visuals. Introduced AWS Kinesis and MongoDB Atlas (M10), streaming changes in data in backend API to an Internal CMS (strapi) deployed into AWS via terraform (VPC/EC2/IAM) with reverse callbacks to backend. Secured clean ITHC report.

### Microservice Designer, contracted by Semantic Integration

Jan 2018 to Sept 2018

Contracted to 'photobox UK' with primary role data modelling and microservices designer. Introduced extensive documentation along with exhaustive JSON Schema documentation/validation and JSON examples to be consumed by the engineering team. Worked closely with the engineering team to ensure proper implementation of data model, including the rationale (benefited from my node.js/React knowledge). Introduce a data model test framework, using Jest (with ES6), node.js V8.x on top of nest.js (typescript) with GraphQL including Jest to generate JSON data examples using a builder style syntax.

Seconded into the Editor agile engineering team to help with full stack development; node.js microservice development, ReactJS frontend development and GraphQL development. Worked closely with the architects to design and prototype a fully AWS serverless solution using DynamoDB, lambda, Kinesis and Step Functions which included lambda functions running puppeteer and rendering React, with automated Jenkins build pipeline for CI/CD.

### DevOps Lead Engineer, contracted by Cap Gemini at Home Office

Sept 2016 to Dec 2017

DevOps role in an agile project environment working on client site. Mastered Jenkins and adopted Puppet for CI/CD. Built a virtual (KVM) environment for puppetised guests, with custom PxE bootstrapping puppet; able to provision a fully functional KVM service within one hour. Crafted a puppetised "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. Built a fully puppetised reverse web proxy with SSL offloading and email routing (postfix) to multiple security domains and deployment solution to deploy across multiple security zones and consolidate the solution across multiple environments.

### IT Consultant (Various Clients & Roles)

September 1998 to August 2016

CGI, formerly logica formerly CMG - More info on online resume

#### Technical Lead at Central Government Department

April 2016 to August 2016

Pioneered two development projects utilising AngularJS, NodeJS/Express, Handlebars and MongoDB, with automated build using Gulp. This client success has led to the Senior Management Team creating a new position of "Innovation & Prototype Lead".

#### Solution Architect at Central Government Department (Concurrent)

June 2015 to August 2016

Technical Leadership within the CTO. Mixed team of Architects. Directed change and delivery across multiple projects. Technical lead & lead developer on a secure reverse application web proxy with RESTful services and web sockets.

#### Solution Architect in CGI Centre of Excellence (Concurrent)

June 2015 - January 2016

Led the development of an open source proof of concept display replacement, using Raspberry Pis, MySQL, PHP, Python and RHEL integrating with a HTML web source; successfully passed vulnerability assessment as part of ITHC ahead of UK national rollout.

#### Solution Architect at Central Government Department

June 2012 to May 2015

#### Technical Architect on Central Government Managed Services Prog

Oct 2006 to June 2012

#### Various including Shell (five years), npower (one year)

Sept 1998 - Oct 2006

#### Technical Architect, Team Leader, Developer

May 1996 to Sept 1998

#### MSI (Mobile Systems Internal)

#### Software Engineer - Ferranti-Thomson Sonar Systems Ltd

Oct 1994 to May 1996