George Cairns

窟 Brighouse, UK 🔹 ៝ SC Cleared 🔹 Platform Design / Cloud Architecture / Data Engineering & Visualisation / Application Development / Machine Learning / Devops Consultancy / Digital Transformation

Delivering robust automation, applications, platforms and tooling, with empathy and perspective.

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in www.linkedin.com/in/geocairns

Skills

Devops & Cloud Automation

Exploits both new and old technology to streamline processes.

Application Development

Systematic, but creative approach to delivering buiness value.

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Data Engineering / ML

Adept at cutting through hype to identify exactly how businesses can best exploit their data using state-of-the-art tools and software.

Product / Delivery

Proven ability to set direction and plan effectively. Laser focused on understanding user need.

Certifications



Google Cloud Platform -Cloud Machine Learning



AWS Solutions Architect -Professional [2019]



Google Cloud Platform -Data Engineer [2019]

agil Scrum Product Owner [Agil-8]

Technologies

Cloud: Google Cloud Platform / AWS / Azure

Automation: Azure Devops / Github / Gitlab / Jenkins / Teamcity

Languages & Frameworks: Javascript / Python / Node.js / C# / .NET / Bash / Powershell / HTML / CSS / Svelte / React

Hosting: Kubernetes / VMware

Data: Tensorflow / Bigquery / Jupyter / SQL / Firestore

Platforms: Firebase / Heroku / Next.js / Observablehq.com / Google Data Studio

OS / Runtime: Windows / Linux / Containers / Serverless IAC: Terraform / ARM / Cloudformation

SDKs: Trello plugin development, custom Slack bot development

Projects

Technical Delivery Lead **UK Ministry of Defence - Defence** Digital

 2022 - 2024 [Contino Consultant] Mission lead for the delivery of the core components (container hosting, infrastructure, networking, security, CI/CD) of MOD's DDAP [Defence Digital Analytics Platform]. The delivery of this complex multi-tenant data platform was outcome based, and required careful balancing of many competing objectives, commercial pressures and security requirements. Technologies: AWS, Gitlab, Jupyterlab,

ArgoCD, KASM, k8s, Openshift, Terraform.

App Migration Consultant UK Gov - Ministry of Justice - CJSE 2020 - 2021 [Automation Logic

Consultant]

Worked in a multi-vendor team to migrate the UK's crown court records portal from UKCloud to AWS & Azure. The project was unusual in that it required a lift and shift approach to one cloud provider, and redevelopment and modernisation in another. My role here is to ensure the safe transfer of production infrastructure, apps, and service from the incumbent vendor to a new service run by Automation Logic. Technologies: AWS, Azure, .NET, C#, Windows 2003, Windows 2019, Terraform.

Lead Product Engineer Automation Logic - Employee Engagement

2020 - 2021

Led a team of 6 developers to conceive, design, implement and support a new data analysis, visualisation and alerting tool to allow AL senior leadership team to much more quickly notice when conditions onsite at a client change, improving customer and engineer retention. It was my job to connect the vision of the product owner to the abilities and motivations of a diverse group of developers in a challenging timescale. The project was delivered in 10 weeks and has run in prod for 6 months without any maintenance or downtime. Technologies: Google Cloud Platform, Bigquery, Firestore, Slack SDK, Google Data Studio, Google Cloud Run, python, terraform

Product Engineer Automation Logic - Consultant Utilisation Optimisation 2020 - 2021

Worked with AL Senior management to team to conceive and deliver tooling to solve the consultancy's unique scheduling challenges. For this project I built a new web application, serverless functions, and a trello plugin, using Google Cloud Platform's Firebase service. This application allows AL management to track engineer placement, see current engineer utilisation, and predict future utilisation based on data from client engagement teams, helping the SLT improve profitability and reduce delivery risk. Technologies: Google Cloud Platform,

Firebase, Firestore, Trello SDK, node.js, frontend javascript

Senior Consulting Engineer **UK Gov - Her Majesty's Prison and Probate Service** 2020 [Automation Logic Consultant]

Short engagement to deliver automated Azure Kubernetes platform automation, working with civil servant architects to implement build and release management best-practices and good IaC development patterns.

Outcome Manager **UK Gov - Home Office**

 2019 [Automation Logic Consultant] Responsible for management of the delivery of the Border Crossing app

migration project, specifically the workstream to move OFFICIAL workloads from on-prem to a new centrally-managed AWS kubernetes platform. I planned the project at JIRA 'epic' level, with team leads reporting to me. My engineering background allowed me to easily understand the interdependencies inherent in the delivery of a compute platform, allowing me to organise the work effectively.

Data Visualisation & API Developer **UK Gov - Homes England**

 2019 [Automation Logic Consultant] At Homes England, our small team built

data pipelines to collect company ownership data and join it with financials in order to calculate the government's exposure to private home building As part of this, I worked with a web design

consultancy to turn their visualisation designs into pixel-accurate, reusable, testable D3.js components. I built tooling to allow designers to test their components with the full range of data, exposing design flaws early in the process. Click here to see an interactive demo

of one of the D3. is components (not if you printed this off, obviously; I'm not that good)

Azure **Codehouse Group**

Senior Consulting Engineer -

2019 [Automation Logic Consultant]

Worked with the codehouse development team to industrialise their Azure / Sitecore deployments, to deliver zero-downtime feature updates, as well as high service resilience through better use of Azure services.

Senior Consulting Engineer -Azure Virtual Desktop **Lloyds Banking Group**

2018 [Automation Logic Consultant]

Led small team in the development of processes and automation to support the migration of 3000 VDI VMs from on-prem VMware to Azure, using Powershell, Jenkins and Terraform.

Azure Virtual Desktop Tech Lead **Lloyds Banking Group**

2018 [Automation Logic Consultant]

Led small team in the development of processes and automation to support the

migration of 3000 VDI VMs from on-prem to Azure. Technologies: Azure, VMware, Powershell, Jenkins and Terraform.

2018 [Automation Logic Consultant] Led onsite team of 7. Responsible for

UK Gov - DEFRA

Tech Lead / Client Principal

setting up the Azure platform support function from scratch, implementing service desk processes, and delivering multiple development team's platform build and release automation needs during the time-critical EU Exit program, in readiness for Brexit date. Technologies: Azure, Azure Devops, Octopus Deploy, ARM templates, node.js

[AWS/Azure Cloud Platforms] **Automation Logic**

2017 - 2018 Led team in pre-sales technical

R&D Tech Lead -

development work, implementing a custom application testing pipeline toolset (in VSTS/Azure Devops), playing a major role in winning the DEFRA contract, Automation Logic's largest client at the time.

Deutsche Bank 2015 - 2017 Designed, developed & implemented a

Private Cloud Engineer

proof-of-concept HP Cloud Service

Automation system for DB's internal 'cloud broker' type internal service; Translated DB strategic direction into an actionable development plan, and managed the execution of that plan to

completion in concert with two other consultants; Created a node.js library for automated testing of HP CSA private cloud services, for use in a new continous integration

process.

Developer - Private Cloud **BNP Paribas 2014 - 2015** Integrated BNPP's internal .NET MVC & HP

Infrastructure Automation

Operations Orchestration Private Cloud site with production systems

management/monitoring tools (Nimsoft/Geneos) Integrated React for process status alerting component Integrated jQuery Pjax library with existing .NET MVC code base for huge UI performance improvements; Integrated BMC ADDM discovery system into the server deployment process & the private cloud UI; **Provided HP Operations Orchestration** training.

Designer - Private Cloud **Lloyds Banking Group 2012 - 2014** Responsible for driving Lloyds Banking

Infrastructure Automation

group towards devOps-style infrastructure

automation, operating within a silo'd department structure. Technical lead for development of the group's first private development cloud, using HP Operations Orchestration. Designed and developed LBG's second award-winning private cloud implementation, which delivers full-scale

route-to-live and production service for Windows/Linux/AIX deployments. Technical lead on the project to add CPU/RAM/disk volume 'flex' capability Design and development of automated internet-facing 'secure-zone' linux deployment capability. Technical Support / Delivery

Developer - Windows Server Build & VMware **Lloyds Banking Group 2010 - 2012** Design, Development, Delivery, Training,

Senior Infrastructure

services into the new combined bank. Delivering a cost saving of over £400,000 **since integration** in licensing alone - not counting the actual engineer time saved.Over ten-thousand fully automatic **windows server builds** performed over 7 years. Also, vmware Infrastructure Support, Automation and custom tool development.

HBOS plc. **2006 - 2010** Design, Development, Delivery and Support of in-house written, end-to-end server build deployment toolsets.

Technical Infrastructure

Developer

Maintenance of large 3-tier ASP.NET web application (c#). Development of windows build engine, including software for hardware recognition, driver remediation, network discovery and countless software deployment packages.

Industry (NMSI) 2003 - 2006 End-to-end responsibility for Windows platform of ~300 users, in a team of 6.

National Museums of Science and

Implemented and supported various Windows based technologies (AD,

Exchange, SQL 2000)

Maintenance and Support of Windows Server (2003/2008 R2) build deployment

Windows

Infrastructure/Support [Edinburgh & Glasgow

Contracts] **Direct Line Financial Services &**

Intelligent Finance 2001 - 2003

from Netware to Windows 2000.

On-site Microsoft server support. Migration

Windows Server Support Halifax / Bank of Scotland

1998 - 2001 Straight from college into 2nd line support

of Windows 'Connect' platform. Recovering Windows NT3.51 and 4.0 based services: Exchange 5.5, SQL 7, IIS4, etc