Alex John Bush

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Digital Lighthouse, KPMG New Zealand (NZ) — From **August 2019** to **now**

Data and Analytics consultant leading and delivering projects for public and private sector clients. Drove internal innovation for tools and platforms to increase our delivery capability and technical maturity. Invested heavily in mentoring of team members, fostering a culture of learning and collaboration alongside maintaining delivery excellence.

Associate Director — From **April 2022** to **now**

Chapter Lead for Engineering. Led and oversaw business development and engagement delivery, and identified and delivered strategic investments in technology and mentoring to ensure delivery capability and capacity. Managed relationships with senior client stakeholders to ensure effective delivery of complex engagements.

Senior Manager — From **April 2021** to **March 2022**

Solution design and delivery of end-to-end analytics platforms for public-sector clients. Designed and delivered zero-trust platform architectures of PaaS and IaaS infrastructure. Developed large-scale data processing pipelines in Apache Spark to support client data modelling.

Manager — From **August 2019** to **March 2021**

Led client project delivery, from Azure Cloud architecture and infrastructure automation, to back-end application development and data reporting. Increased the technical maturity of the team, running workshops and designing best practices for delivery on topics such as Git, advanced SQL, Apache Spark, testing and automation, cloud architecture.

Cox Automotive (UK) — From **November 2016** to **August 2019**

Data Engineering team lead, supporting Business Intelligence (BI) and Data Science (DS) teams with data and platforms to enable effective business analytics. Enabled principle of self-service analytics and ETL development for BI and DS teams through strategic use of tool and framework development, workshop and collaboration sessions, and interactive consultation (summarised in a talk given at the Spark Summit 2019 (youtu.be/1WUIua-xjJA)).

Lead Data Engineer — From **April 2018** to **August 2019**

Delivered data-driven products, supported BI and DS teams to productionise data and machine-learning models, and responsible for platform and data pipelines. Performed zero-downtime platform migration from Cloudera (IaaS) to Azure Databricks (PaaS). Core contributor to Waimak, our open-source Apache Spark library (github.com/CoxAutomotiveDataSolutions/waimak).

Hadoop DevOps Engineer — From **November 2016** to **March 2018**

Automated deployment of Cloudera platform, and migrated platform onto a secure platform (Kerberos, SSL, RBAC). Responsible for all automation of project and environment builds and deployment. Released Waimak, an open-source Apache Spark library developed by the team.

Hortonworks (UK)

Professional services consultant providing Hadoop implementation, administration and developer services to banking-sector clients.

Senior Consultant

British Gas (UK)

From **September 2013** to **November 2015**

Developer and Platform Engineer delivering ETL pipeline development, and infrastructure and platform automation to support large on-premises Hadoop clusters.

Hadoop Platform Engineer

From **January 2015** to **November 2015**

Graduate Hadoop Software Developer

From **May 2014** to **January 2015**

Graduate SAP Developer

From **September 2013** to **May 2014**

EDUCATION

MPhys, Masters in Computational Physics with Honors
University of Edinburgh

Masters Project: Radiative Transfer on GPUs using NVIDIA CUDA
Senior Honors Project: Lattice QCD on GPUs using NVIDIA CUDA

CERTIFICATIONS

Microsoft Certified: Azure Solutions Architect Expert
Microsoft
Valid from **February 2022** to **February 2023**

Microsoft Certified: DevOps Engineer Expert
Microsoft
Valid from **January 2022** to **January 2023**

Microsoft Certified: Azure Data Engineer Associate
Microsoft
Valid from **April 2020** to **April 2023**

Microsoft Certified: Azure Security Engineer Associate
Microsoft
Valid from **September 2020** to **September 2022**

Microsoft Certified: Azure Developer Associate
Microsoft
Valid from **February 2022** to **February 2023**

Microsoft Certified: Azure Administrator Associate
Microsoft
Valid from **January 2022** to **January 2023**

Microsoft Certified: Azure Cosmos DB Developer Specialty
Microsoft
Valid from **June 2022** to **June 2023**

AWS Certified Big Data - Specialty
Amazon Web Services (AWS)
Valid from **January 2020** to **January 2023**

TECHNICAL SKILLS

Data Engineering
Apache Spark, SQL, Hive, and Databricks

Software Engineering
Scala, Python, C#, TypeScript, and Functional Programming

Cloud Engineering
Azure and AWS

DevOps / Automation
Azure DevOps, Azure Pipelines, ARM / Bicep, Bash, Github, Github Actions, and Pulumi

Infrastructure / Platform
Linux / Unix, SSL / Certificates, and Networking