Alex John Bush

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Professional Services, Qrious Limited (NZ)

From **November 2022** to **now**

Principal Consultant

Digital Lighthouse, KPMG New Zealand (NZ)

From **August 2019** to **November 2022**

Led and delivered **Data and Analytics** projects for **public and private sector clients**. **Drove internal innovation** to **increase delivery capability and technical maturity**. **Fostered a culture of learning and collaboration through mentoring**.

Associate Director

From **April 2022** to **November 2022**

Chapter Lead for Engineering. Led **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. 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**.

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 (summarised in a **talk given at the Spark Summit 2019** (youtu.be/1WUIua-xjA)).

Lead Data Engineer

From **April 2018** to **August 2019**

Delivered and supported **data-driven platforms, pipelines, and products** across BI and DS teams. Performed **zero-downtime platform migration** from **Cloudera (IaaS) to Azure Databricks (PaaS)**. **Was a core contributor to Waimak**, an 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.

Hortonworks (UK)

From **December 2015** to **November 2016**

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**

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

Microsoft Certified: Azure Solutions Architect Expert
Microsoft
Valid from **February 2022** to **February 2024**

Microsoft Certified: Azure Security Engineer Associate
Microsoft
Valid from **September 2020** to **September 2023**

Microsoft Certified: Azure Administrator Associate
Microsoft
Valid from **January 2022** to **January 2024**

Microsoft Certified: DevOps Engineer Expert
Microsoft
Valid from **January 2022** to **January 2024**

Microsoft Certified: Azure Developer Associate
Microsoft
Valid from **February 2022** to **February 2024**

Data Engineering
Apache Spark, SQL, Databricks, and Snowflake

Cloud Engineering
Azure and AWS

Infrastructure / Platform
Linux / Unix, Bash, and Networking

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

DevOps / Automation
Azure DevOps, ARM / Bicep, Github, Pulumi, and Terraform