

# Alex John Bush

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EMPLOYMENT HISTORY

## 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-xjJA](https://youtu.be/1WUIua-xjJA))).

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](https://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

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 2024

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

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

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

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

TECHNICAL SKILLS

Data Engineering  
Apache Spark, SQL, Databricks, and Snowflake

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

Cloud Engineering  
Azure and AWS

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

Infrastructure / Platform  
Linux / Unix, Bash, and Networking