Alex John Bush

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MAS Medical Assurance Society

From **September 2024** to **now**

Solutions Architect

Professional Services, Qrious Limited (NZ)

From **November 2022** to **September 2024**

Led delivery of many modern data platforms and **data products** across a range of technologies and government and private sector clients. Involved with significant amount of **pre-sales activities**, from **solution architecture design**, to **project scoping, costing and proposal writing**. Managed a team of data consultants, from junior to senior consultants. **Drove automation and repeatable infrastructure-as-code initiatives** to bring innovation to project delivery, ensure platform implementation consistency and capture reusable assets.

Principal Consultant

Led the **architecture design and platform delivery** of **Microsoft Fabric**-based modern data platform for multiple large organisations. Led the architecture design and platform delivery of Azure Databricks for analyst workloads in a **large NZ government organisation**. Delivered multiple modern data platform implementations across **Fivetran, Azure, Snowflake, Azure Databricks, Coalesce and DBT** using **Infrastructure-as-Code**.

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

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**)).

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 2025

Microsoft Certified: DevOps Engineer Expert
Microsoft
Valid from January 2022 to January 2025

Microsoft Certified: Azure Data Engineer Associate
Microsoft
Valid from April 2024 to April 2026

Microsoft Certified: Fabric Analytics Engineer Associate
Microsoft
Valid from May 2024 to May 2025

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

Microsoft Certified: Azure Developer Associate
Microsoft
Valid from February 2024 to February 2025

Microsoft Certified: Azure Administrator Associate
Microsoft
Valid from January 2022 to January 2025

SnowPro Core Certification
Snowflake
Valid from November 2023 to November 2025

SnowPro Advanced: Architect Certification
Snowflake
Valid from August 2024 to August 2026

Data Engineering
Apache Spark, Databricks, Snowflake, Microsoft Fabric, dbt, and SQL

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

Cloud Engineering
Azure, and AWS

DevOps / Automation
Azure DevOps, ARM / Bicep, GitHub, and Terraform

Infrastructure / Platform
Linux / Unix, Bash, and Networking

Soft Skills
Solution Architecture and Platform Design, Agile Project Delivery, Requirements Gathering, Technical Writing, Workshop Facilitation, and Data Modelling