Tom Brereton

Lead Software Engineer | Software Architect | Cloud Engineer

Specializing in .NET, Azure, Terraform & Cloud Solutions

mail@tombrereton.dev • www.tombrereton.dev • linkedin.com/in/tbrereton • Australia (Available Nationwide)

Lead Software Engineer with 10+ years architecting enterprise .NET and Azure solutions for government, insurance, media, and ecommerce sectors. Led teams delivering payment platforms processing $5B+ annually (DEWR) and revenue-critical applications for Channel Nine ($1B+). Combines hands-on architecture with technical leadership, translating business needs into pragmatic solutions and keeping teams focused on what matters.

PROFESSIONAL EXPERIENCE

Department of Employment & Workplace Relations (DEWR)

Lead Software Engineer (Contract)   Apr 2024 - Present

.NET   Azure   Terraform   SQL Server

Led teams delivering payment systems processing $5B annually and API infrastructure for government services

- Architected & Led Payment Integration team handling over $5 billion in annual payments
- Led Azure API Management team implementing enterprise integration patterns for government services
- Managed teams of 3-5 engineers across .NET and Terraform development
- Established CI/CD pipeline and infrastructure-as-code practices using Azure DevOps
- Mentored junior engineers on clean architecture, domain-driven design and cloud best practices

Channel Nine

Senior Software Engineer (Contract)   Sep 2023 - Apr 2024

.NET   Terraform   AWS   SQL Server   On Premise Servers

Enhanced .NET revenue critical solutions and cloud infrastructure for Channel Nine, improving system reliability and accelerating incident recovery.

- Delivered critical enhancements to .NET solutions which generate over $1 billion in annual revenue
- Improved system reliability by reducing Priority 2 incidents 10%, through load balancer architecture optimization
- Decreased Mean Time to Recovery (MTTR) from 8 hours to 30 minutes, using CI/CD pipelines and Infrastructure as Code (AWS)

PROFESSIONAL EXPERIENCE (CONTINUED)
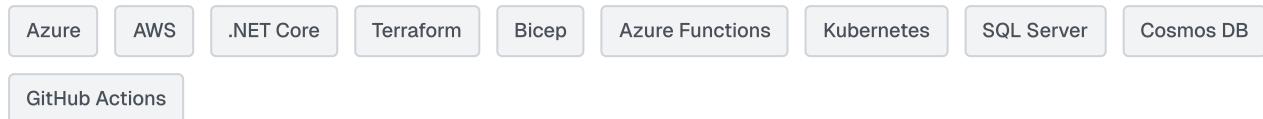
Mantel Group

Lead Software Engineer   Mar 2023 - Sep 2023

Senior Software Engineer   Jul 2022 - Feb 2023

| Azure | AWS | .NET Core | Terraform | Bicep | Azure Functions | Kubernetes | SQL Server | Cosmos DB |

| GitHub Actions |
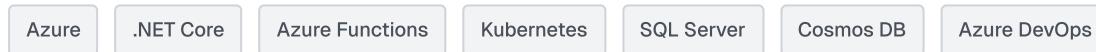
Progressed from Senior to Lead Software Engineer, delivering high-impact automation solutions for insurance clients while cultivating executive relationships and driving business growth through technical excellence.

- Led vital client projects with excellence in deliverables and best practices in .NET Core for event-driven systems
- Built strong professional relationships with top client executives, securing additional business for Mantel Group
- Effectively presented system designs to executive clients, ensuring alignment on technical architecture
- Mentored software engineers, focusing on goal setting and professional growth
- Led engineering team to automate Claims Payments in .NET, significantly reducing manual work and earning high client praise
- Led winning client-based Hackathon project, earning more business and managing team challenges effectively
- Served as key interviewer for new candidates at Mantel Group, contributing to team growth and talent selection
- Developed Bicep & Terraform templates for efficient infrastructure automation

Exify

Founder & Principal Engineer   Apr 2021 - Jul 2022

| Azure | .NET Core | Azure Functions | Kubernetes | SQL Server | Cosmos DB | Azure DevOps |
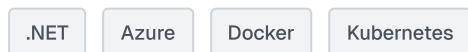
Founded and led technical operations for a software consultancy, delivering event-driven .NET solutions and establishing engineering best practices for client projects.

- Designed and implemented C# .NET solutions using Docker and Kubernetes for scalable cloud deployments
- Architected event-driven systems and presented solution designs to stakeholders
- Onboarded and mentored engineers on cloud architecture and development practices
- Built and maintained CI/CD pipelines in Azure DevOps and GitHub Actions for automated deployments

Constructionline

Senior Software Engineer (Contract)   Jul 2020 - Mar 2021

| .NET | Azure | Docker | Kubernetes |

Delivered containerized .NET solutions and automated database deployment pipelines for Azure cloud infrastructure.

- Designed and implemented C# .NET solutions using Docker and Kubernetes for container orchestration
- Managed and optimized cloud solutions in Azure environment
- Built and maintained CI/CD pipelines for automated database migrations, reducing deployment time

PROFESSIONAL EXPERIENCE (CONTINUED)

Sport Betting Consultancy

Full Stack Engineer   Jan 2020 - Jun 2020

.NET Core   Kubernetes   On Premise Servers

Architected and developed full-stack .NET solutions for proprietary sports betting applications on on-premise infrastructure.

- Designed solution architecture for high-performance financial trading systems using .NET Core
- Built and deployed scalable applications on Kubernetes clusters in on-premise environments

Asos

Software Engineer   Mar 2019 - Dec 2019

Associate Software Engineer   Sep 2018 - Feb 2019

Graduate Software Engineer   Sep 2017 - Aug 2018

Azure   .NET Core   Kubernetes   SQL Server   Cosmos DB   Azure DevOps

Progressed from Graduate to Software Engineer, contributing to Kubernetes adoption, modernizing .NET applications, and mentoring junior engineers.

- Played a key role in adopting Kubernetes (AKS) at Asos, driving cloud-native transformation
- Delivered comprehensive 9-hour training session on TDD, Test-Driven Development Patterns (TPP), and Test Doubles
- Re-platformed services from .NET Framework to .NET Core, improving performance and maintainability
- Mentored graduates and interns on Azure, .NET Core, and container technologies
- Containerized legacy Cloud Services with Docker, improving deployment efficiency
- Led the graduate cohort project team, coordinating deliverables and technical execution

EDUCATION

Master of Computer Science

University of Birmingham • 2016 - 2017

Bachelor of Civil & Structural Engineering

University of Adelaide • 2008 - 2013

PROFESSIONAL ATTRIBUTES

- **Security Clearance:** Baseline clearance (can obtain higher levels as required)
- **Contract Type:** Available for 6-12 month engagements, immediate start
- **Work Style:** Remote or hybrid, experienced in distributed team collaboration
- **Specializations:** Enterprise architecture, legacy system modernization, Azure cloud migration

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References available upon request