

Jason Doyle

Senior Software Engineer | Products, Distributed Systems & Backend Platforms

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Senior software engineer with more than 10 years building and operating products, backend services, data platforms and internal engineering systems across Microsoft Office and Azure. Experience includes C#/.NET services, APIs, SQL data models, telemetry ingestion, workflow automation and high-availability production systems. Architected shared analytics platforms across Azure services, led reliability and production operations for services used by millions and independently built BarnPage. Works end to end from system design and implementation through rollout, diagnosis and iteration.

SELECTED IMPACT

- Built and operated C#/.NET services, SQL data-processing systems, telemetry pipelines and automation frameworks across Microsoft Office engineering and Azure production services.
- Owned production operations and reliability strategy for Azure data services used by millions, from high-severity diagnosis through durable remediation.
- Shipped and operate BarnPage, a deployed product built independently across its data model, access boundaries, background workflows and Azure deployment.
- Publish open-source database systems work and reproducible benchmark evidence with explicit workload limits.

CORE EXPERTISE

Backend & platform systems: C#/.NET, TypeScript, SQL/T-SQL, APIs, distributed systems, cloud architecture, CI/CD and automation frameworks.

Product & service delivery: Data modelling, access boundaries, background workflows, deployment, product operation and iterative delivery.

Data & analytics platforms: Azure Data Explorer/Kusto, SQL Server, PostgreSQL, Microsoft Fabric, Azure Synapse, ETL/ELT, telemetry warehouses and semantic models.

Production engineering: High-availability systems, service ownership, deep diagnosis, incident command, SLI/SLO design and operational readiness.

SELECTED TECHNOLOGIES C#/.NET | TypeScript | SQL/T-SQL | PostgreSQL | Azure | Azure Data Explorer/Kusto | Microsoft Fabric | Azure Synapse | APIs | CI/CD

PROFESSIONAL EXPERIENCE

Senior Customer Experience Engineer | Technical Lead, Reliability and Observability

Mar 2025 - Present

Microsoft | Azure Engineering Operations | Redmond, WA

- Architect telemetry ingestion paths, shared analytics models and reporting surfaces across Azure services using Azure Data Explorer, Azure Synapse and Microsoft Fabric.
- Define system contracts and reporting paths that translate internal service indicators into signals used by engineering and customer-facing workflows.
- Define and evaluate AI-assisted analysis for incident detection and proactive service-health workflows.
- Diagnose production failures in live Azure services with engineering teams and enterprise customers, from evidence collection through mitigation and design change.

PROFESSIONAL EXPERIENCE, CONTINUED

Senior Site Reliability Engineer | Azure Data

Sep 2023 - Mar 2025

Microsoft | Redmond, WA

- Owned reliability strategy and production operations for Azure data services supporting millions of users.
- Designed and introduced structured diagnostic and incident-management workflows built around shared telemetry.
- Directed high-severity troubleshooting from evidence collection through mitigation and durable remediation.

Senior Site Reliability Engineer | Localization as a Service

Sep 2019 - Sep 2023

Microsoft | Redmond, WA

- Built automation that improved deployment consistency and operational readiness across several Azure services.
- Modernized infrastructure, monitoring and diagnostic tooling for high-availability platforms supporting global Microsoft product workflows.
- Delivered efficiency improvements while preserving service reliability and performance expectations.

Software Engineer to Senior Software Engineer | Microsoft Ireland

May 2014 - Sep 2019

Internship and contract roles | Dublin, Ireland

Progressed from intern to senior software engineer across Data and Telemetry, Unassisted Quality, Natural Language Experience, and Office International Publishing Group teams.

- Built and maintained large-scale data-processing, telemetry, localization-validation and publishing systems for Microsoft Office engineering.
- Developed automation frameworks, workflow tooling and Azure-based internal services.
- Improved the performance and reliability of distributed validation and publishing workflows.
- Collaborated across engineering teams in Europe and North America on cloud and productivity-platform solutions.

INDEPENDENT ENGINEERING & TECHNICAL WRITING

BarnPage - Deployed product for riding barns

barnpage.com

- Designed and built the product end to end on TypeScript, Next.js, PostgreSQL/Prisma and Azure: relational data model, barn-scoped permissions, a separate video-processing worker, scheduled workflows, deployment and ongoing operation.

ThimbleDB - Open-source browser-first database

github.com/Jason-Doyle/thimble

- Designed and implemented an encrypted TypeScript database for bounded, read-heavy web applications, combining Web Crypto and IndexedDB caches with an OIDC authority, conditional object-storage writes, multi-cloud adapters and raw seven-region benchmark evidence.

Selected technical writing:

- Language Models Are Changing the Gameplay Interface
- Polished Code Can Hide a Broken Model

Full portfolio: jasondoyle.ie/whitepapers

EDUCATION

City & Guilds Diploma in Systems and Principles, NFQ Level 6

Griffith College, Dublin | 2013 - 2014

FETAC Level 5 Certificate in Information Technology

Ballyfermot College of Further Education, Dublin | 2009 - 2010