

EDWARD HAIGH

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SENIOR / LEAD SOFTWARE ENGINEER | .NET/C# & DATA-INTENSIVE ENGINEERING SYSTEMS

Software engineering and data platform leader with 10+ years of experience architecting .NET systems, modernising platforms, and guiding engineering delivery across motorsport and enterprise environments.

Seasoned in end-to-end software delivery across Formula 1, Formula E, and enterprise environments, spanning web and desktop engineering, solution design, testing, releases, and infrastructure. Skilled at building web applications, APIs, distributed integrations, automated data pipelines, desktop applications, and high-performance analytics tooling. Adept at modernising legacy web and desktop systems, strengthening engineering standards, and improving reliability across trackside and production workflows. Proven success in mentoring developers, guiding technical decisions, and partnering directly with engineers and stakeholders. Brings a pragmatic motorsport engineering mindset focused on performance, resilience, maintainability, and dependable delivery under pressure.

Technical Skills: C#/.NET | ASP.NET Core | Blazor | SignalR | WPF | WinUI 3 | JavaScript | SQL Server | MongoDB | Azure | Azure DevOps | Git | Docker | REST | gRPC | RabbitMQ | MQTT | Entity Framework Core | Rx.NET

AREAS OF EXPERTISE

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|-------------------------|-------------------------------|------------------------------------|
| • .NET/C# Engineering | • Web Application Engineering | • Web & Desktop Applications |
| • Software Architecture | • Microservices Architecture | • Real-Time Systems |
| • Backend Services | • SQL & Data Modelling | • Performance Optimisation |
| • Data Platforms | • Cloud & Azure | • Engineering Standards |
| • Distributed Systems | • DevOps & CI/CD | • Technical Leadership & Mentoring |

CAREER HIGHLIGHTS

- Developed engineering software supporting three FIA Formula E World Championship-winning campaigns across racing environments.
- Reduced telemetry session data by 55%, shrinking files from 1.5 GB to approximately 675 MB.
- Architected Jaguar TCS Racing's primary event system of record, underpinning race, test, and engineering workflows.
- Consolidated 150 repositories across six source-control systems, simplifying access, onboarding, collaboration, and engineering team productivity.
- Accelerated expression evaluation three-to-four times by identifying parsing limitations and enabling an upstream sonic fix.
- Improved car-state snapshot performance by 94%, reducing processing time from three minutes to 10 seconds.
- Delivered invoicing PDF generation supporting up to 20,000 documents monthly across Marshalls plc enterprise systems.

PROFESSIONAL EXPERIENCE

Software Engineer (Contract)

Nov 2024 – Apr 2026

Fortescue Zero (Jaguar TCS Racing)

- Architected a statistical platform integrating external APIs, automated ingestion, analytics tooling, and downstream system dependencies.
- Delivered a Blazor Hybrid analytics application with interactive visualisation, dockable interfaces, and isolated third-party dependencies.
- Defined event platform architecture as primary system of record for race, test, and engineering workflows.
- Led Rx.NET adoption, replacing polling-based monitoring with reactive event handling that simplified application state management.
- Elevated application stability by containing third-party component failures and preventing propagation throughout dependent desktop processes.

Software Engineer - Aero Performance

Nov 2023 – Oct 2024

Mercedes-AMG F1 Team

- Designed data-analysis software supporting trackside, wind-tunnel, CFD, and simulator workflows for aerodynamic performance engineering teams.
- Partnered with aerodynamicists and performance engineers to translate analytical requirements into maintainable software solutions.
- Migrated legacy MATLAB file-processing workflows into maintainable .NET components before seasonal engineering operations commenced.
- Identified Sonic expression-parsing limitations, enabling an upstream fix and subsequent migration away from Jace.NET.
- Supported operational engineering applications across performance environments, maintaining reliability throughout demanding development and analysis workflows.

DSpace Engineer

Nov 2022 – Nov 2023

Fortescue Zero (Jaguar TCS Racing)

- Designed structured software engineering interviews spanning technical, systems, screening, and take-home assessments.
- Introduced normalised SQL Server schemas and Entity Framework Core migrations, enabling controlled deployments through pipelines.

- Built workflow orchestration supporting manual, scripted, and automated race-event data processing reliably across Jaguar operations.
- Standardised engineering practices across multiple languages to improve team wide code consistency, quality, and release confidence.
- Re-architected trackside API infrastructure across Linux hosts, separating workloads and introducing health checks for reliability.
- Introduced application monitoring software across several team platforms to strengthen operational visibility and support issue detection.
- Introduced MSIX packaging and code signing for desktop applications, strengthening deployment trust, software authenticity, and protection against unauthorised tampering or distribution.
- Supported race-critical engineering software at vehicle test events, providing on-site and on-call troubleshooting to resolve operational issues during live running.

Application Software Engineer

Apr 2021 – Oct 2022

Haas F1 Team

- Built real-time garage signalling software ingesting telemetry data and controlling physical displays for trackside personnel.
- Architected Blazor micro-frontend platform enabling independent module deployment while decoupling release cycles in shared applications.
- Rebuilt trackside vehicle-programming tooling using WinUI and MVVM, supporting systems engineers during active race operations.
- Mentored junior engineers through onboarding and delivery to strengthen sensor-calibration service development and practical engineering.
- Evaluated high-performance charting frameworks for telemetry datasets, informing future statistical analysis and visualisation tooling decisions.

Apprentice Software Developer

Aug 2016 – Mar 2021

Marshall's plc

- Designed enterprise case management using Blazor Server, Entra authentication, and secure hybrid integration to APIs.
- Pioneered .NET Core adoption through technical and financial analysis, guiding migration and deployment technology decisions.
- Implemented application security and code-quality tooling, introducing SAST visibility to support organisational audit and governance.
- Mentored apprentices to strengthen onboarding while building practical software engineering capability across teams.
- Led feasibility studies identifying capability gaps, delivery risks, and hidden complexity before project commitment decisions.

EDUCATION

DipHE Digital and Technology Solutions (Software Engineering)

Manchester Metropolitan University | 2017 – 2021