

PROFILE

Senior Full-Stack Engineer with 20+ years of experience delivering software across healthcare, defence, aviation, education, media, insurance, hospitality, power generation and the public sector. Experienced in platform modernisation, systems integration, cloud-native architecture, workflow automation, analytics and building maintainable systems that evolve with changing business needs. Active in the adoption of AI-assisted software engineering practices to improve delivery quality, developer productivity and operational efficiency.

CORE STRENGTHS

- Modern .NET development: C#, ASP.NET Core, Web API, MVC, EF Core
- Test-driven development using NUnit, xUnit, Moq and FluentAssertions
- Platform modernisation, legacy decomposition and service boundaries
- Front-end delivery with Vue, Angular, React, TypeScript and JavaScript
- Data platforms, reporting, SQL Server, PostgreSQL, Oracle and ETL
- Workflow automation, developer productivity and continuous improvement
- Cloud and delivery: Azure, AWS EKS/ECR, Docker and CI/CD pipelines
- Architecture patterns: cloud-native services, hexagonal, Helix and three-tier
- Integration: payments, identity, search, external data feeds and partner systems
- Technical documentation, code reviews, mentoring, Jira planning, Confluence, UML and Agile delivery

SELECTED PROJECT HIGHLIGHTS

Swissport Lounge Booking Modernisation | Reading Room / Swissport | Aviation / Hospitality | 2024-Present

- Modernising lounge booking and check-in systems using .NET 10, ASP.NET Core, Vue 3, TypeScript, PostgreSQL, Redis, .NET Aspire, Docker and AWS EKS/ECR, with a focus on scalable service design, workflow optimisation and operational efficiency.
- Implemented hybrid caching and data architecture improvements, including basket/sales separation and reduction of active basket data by approximately 40% daily
- Supported decomposition from a monolithic data model toward domain-aligned databases, improving maintainability, scalability and operational boundaries

UK Coaching Platform Rebuild | Reading Room / UK Coaching | Education / Coaching | 2024-2025

- Rebuilt three digital platforms using Kentico Xperience 13 with reusable components, shared base site architecture and long-term editorial maintainability
- Architected solutions using hexagonal ports and adapters, integrating Stripe payments, identity and Vue 3 UI islands for basket and purchase journeys

Circle Health Platform Enhancements | Reading Room / Circle Health Group | Healthcare | 2023-2024

- Evolved a legacy healthcare platform into modular Sitecore Helix architecture, upgraded to Sitecore 10 and supported containerised deployment with Docker
- Delivered complex migration of 1,500+ blog articles and 6,500+ consultant profiles across 54 hospitals while preserving relationships and supporting search improvements

Vitality Member Zone | Vitality | Insurance / Healthcare | 2018-2023

- Delivered large-scale customer-facing insurance platforms supporting member onboarding, rewards, health tracking, partner integrations, business rules processing and customer engagement journeys.
- Built Sitecore Helix features, Angular registration journeys, ASP.NET Web API services and business rules supporting insurance products, member services and partner integrations including Amazon, Odeon, AMEX and Waitrose.

PROFESSIONAL EXPERIENCE

Senior Full-Stack Engineer | Reading Room | 2023–Present

Clients: Swissport, UK Coaching, Circle Health Group

- Delivered modern full-stack systems across aviation, coaching and healthcare, contributing to architecture decisions, code reviews, mentoring and continuous improvement of engineering practices.

Senior / Full-Stack Engineer | Vitality | 2018–2023

Member Zone, rewards, onboarding and partner integrations

- Developed customer-facing insurance platforms supporting digital onboarding, rewards, member engagement, partner ecosystems and business process automation; mentored a junior developer through progression into a fully contributing engineer.

Software Engineer | SOAS, University of London | 2015–2018

Education systems, distance learning, reporting and integrations

- Developed web applications, reporting solutions and integrations supporting distance learning and university administration using ASP.NET, C#, SQL Server, Oracle, SSRS, UNITE/Moodle integrations and third-line support

Software Engineer | Ministry of Justice / HMCTS | 2013–2015

Business intelligence, analytics and public-sector reporting

- Supported early stages of Kimball-style data warehouse build-out using SQL Server, SSIS and Oracle sources; maintained Crystal Reports and SAP Business Objects reporting for operational, parliamentary, FOI and media-related reporting

Software Engineer | ESPN | 2010–2013

Broadcast management, feed integration and revenue platforms

- Supported mission-critical broadcast systems for 24/7 sports broadcasting; built ASP.NET MVC feed management tooling, C# .NET WinForms utilities, PL/SQL migration tools, Soundmouse royalty middleware and live betting odds integration

Software Engineer | Imagine Communications / Harris | 2008–2010

Broadcast management systems

- Contributed to client/server broadcast management software using Delphi, C# and Oracle across multiple major releases

Software Engineer | EMIS / MOD DMICP | Earlier Career

Defence healthcare systems

- Developed features across appointment management, pharmaceutical services and dental systems using Delphi, C# .NET and SQL Server within secure defence healthcare environments

Software Engineer | Framatome | Earlier Career

Power generation and instrumentation systems

- Worked on industrial software supporting instrumentation, measurement and monitoring systems in regulated engineering environments

ENGINEERING PRACTICES

- Agile and Scrum delivery
- Test-driven development (TDD)
- Code reviews and mentoring
- CI/CD and automated deployment pipelines
- Technical documentation and architecture design
- AI-assisted software engineering and workflow automation

TECHNICAL STACK

Languages & Frameworks: C#, .NET, ASP.NET Core, ASP.NET MVC, Web API, EF Core, LINQ, Delphi, JavaScript, TypeScript, Vue, Angular, React

Data & Reporting: PostgreSQL, SQL Server, Oracle, PL/SQL, T-SQL, SSIS, SSRS, SAP Business Objects, Crystal Reports, Power BI

Cloud, Delivery & Tooling: Azure App Services, Azure SQL, Azure Application Gateway,

Azure DevOps, AWS EKS/ECR, Docker, Bitbucket Pipelines, Jenkins, Octopus Deploy, Git, SVN, Jira, Confluence, Mermaid, OpenAPI/Scalar, OpenTelemetry