

# JOHN FITZGERALD

Senior Full Stack Developer | Solutions Architect | 30+ Years UK Contracting  
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## PROFESSIONAL PROFILE

Senior .Net/C# full stack developer and solutions architect with 30+ years of UK contracting across financial services, government, utilities and hospitality. Consistently delivers cloud-native Azure and AWS applications, enterprise data integrations, and complex ETL pipelines within Agile teams. Proven track record in leading development teams, defining architecture, and mentoring junior developers. Currently applying prompt engineering and agentic AI using Claude (Anthropic) to accelerate delivery.

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## CORE TECHNICAL SKILLS

.Net / C# (all versions through .Net 10), ASP.Net MVC / Blazor / Razor, Web API (RESTful), VB.Net  
Prompt Engineering & Agentic AI: Claude (Anthropic), Claude Code CLI, Anthropic SDK (.Net/C#), MCP  
Angular 16/18 / TypeScript, ReactJS, HTML5, CSS, JavaScript, jQuery, Bootstrap  
Azure: Functions, SQL, CosmosDB, Service Bus, DevOps (CI/CD), Bicep/ARM (IaC), App Service  
AWS: Lambda, RDS/SQL, Terraform (IaC), Batch Processing, S3  
MS SQL Server / T-SQL (30+ yrs), SSIS, SSRS, Entity Framework (EF), Oracle, Sybase  
TDD/BDD: xUnit, MSTest, NUnit, Moq, NSubstitute; DI/IOC: Unity, Castle Windsor, Ninject; SOLID principles  
Git, Azure DevOps, ReSharper, JIRA; Agile/Scrum; TOGAF (Systems Analysis); Prince 2

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## QUALIFICATIONS

Post Graduate Diploma in Software Development — Open University (2003)

Modules: Software Engineering, Relational DB Systems (Merit), OO Development, Advanced Database Technology, Project Management

Microsoft Certified Professional: Windows NT Workstation 3.51 (1996)

B/TEC HNC Applied Science (Physics & Administration) — Paddington Green College (1989)

B/TEC ONC Applied Science — Paddington Green College (1986)

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## Training Received

- Management Fundamentals
  - Angular with Typescript
  - Clean Code and Unit Testing methodologies
  - ASP.Net with C# and ADO.Net, both MVC and Blazor
  - Database design and development, including ETL, SSIS and Reporting
  - XML & XSLT training
  - GUI Design and Web interface design, HTML 5, CSS with Bootstrap
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Working as a freelance contractor for most of my career — primarily as a full stack developer — through my own limited company, progressing from development into lead and architectural roles.

## CAREER HISTORY

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### **Haven Holidays** — Senior Developer, Finance Integrations (August 2025 – Present)

Working on data feeds into the Unit 4 ERPx finance module: supporting existing feeds, updating with new requirements, and building new integrations from 3rd party systems (Zonal till data, Activity sales, Arcade machine income). Led a full review of all feeds for performance and stability improvements. Migrated databases and services from on-premises servers to AWS cloud.

Applied prompt engineering and agentic AI development using Claude (Anthropic): used Claude Code CLI for AI-assisted development (Lambda generation, unit test authoring, code reviews, documentation). Designed agentic workflows using the Anthropic SDK (.Net/C#) with tool use and multi-step reasoning to automate pipeline diagnostics and self-healing error correction. Applied MCP patterns enabling Claude agents to interact with AWS services and internal APIs.

**Technologies:** AWS SQL, AWS Lambda, .Net 8/10, C#, JSON, Entity Framework (EF), Moq, xUnit, Git, ReSharper, Terraform (IaC), Batch Processing, Claude AI / Anthropic SDK (.Net/C#), Prompt Engineering, Agentic AI, Claude Code CLI, MCP.

### **Dept. for Environment, Food & Rural Affairs (DEFRA)** — Senior Developer (Sept 2024 – Aug 2025)

Full stack development on the Packaging Exporter and Reprocessing site (ASP.Net MVC / C#, GDS Guidelines). Three-tier architecture: MVC UI, Azure Function API middleware, Azure Function backend with Entity Framework. Two-week sprint cycle; PR reviews and mentoring.

**Technologies:** Azure SQL, Azure Functions, .Net 8, C#, ASP.Net MVC, Razor, HTML, CSS, JavaScript, Entity Framework (EF), Moq, xUnit, Git, Azure DevOps (CI/CD), GDS Guidelines, Figma.

### **Anglian Water** — Senior Developer, Health & Safety Solutions (July 2024 – July 2025)

Supported and enhanced Angular web applications with .Net/C# Azure Function APIs and CosmosDB/SQL backends. Delivered new applications in Agile two-week sprints; conducted PR reviews, mentored junior developers, co-ordinated with QA and business stakeholders.

**Technologies:** Azure SQL, Azure Functions, CosmosDB, .Net 6/8/9, C#, Angular 16/18, TypeScript, Entity Framework (EF), Moq, xUnit, Git, Azure DevOps (CI/CD), Bicep (IaC), Figma.

### **Telereal Trillium** — Development Team Leader / Solutions Architect (July 2020 – June 2024)

Led in-house development team: team building, annual reviews, goal setting, development standards. Maintained Enterprise System Architecture and Entity Data Model. Modernised legacy .Net 4.x Webforms to cloud-native .Net 8 microservices using Blazor, CosmosDB, and Azure Service Bus. Deployed via Azure DevOps with Bicep IaC. Three-week Agile sprints, IS planning participation.

**Technologies:** Azure SQL, CosmosDB, .Net 6/8, C#, WebAPI, Blazor, ASP.Net MVC, Azure Service Bus, Entity Framework (EF), Moq, xUnit, Git, Azure DevOps (CI/CD), Bicep/ARM (IaC).

### **Care Quality Commission** — Senior Developer / Solution Architect (April 2019 – July 2020)

Built a new Azure web application for registration of Care Providers using ASP.Net Core 2.2 MVC, TDD, and formal Agile Scrum meeting GDS guidelines. Conducted code reviews and sprint planning. Data gathered by the application was submitted to the CRM system for processing.

**Technologies:** Azure SQL, Azure Functions, CosmosDB, .Net Core 2.2, C#, ASP.Net MVC, Razor, Entity Framework (EF), Moq, xUnit, NSubstitute, Git, Azure DevOps (CI/CD), GDS.

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## **EARLIER CAREER (2005 – 2019)**

**Alfius** (2018–2019): Senior Developer / Architect — Azure cloud app for Premier Inn (~900 users) and ETL solution for Costa Express coffee machine asset management; Angular / C# / Azure.

**WM Reply / EasyJet** (Feb–Apr 2018): Senior Developer — .Net Core 2 Web API rationalisation with TDD (xUnit/Moq).

**AmTrust at Lloyd's** (Dec 2017–Feb 2018): Senior Developer — Custom ETL reconciliation solution with HTML reporting.

**Old Mutual Global Investors** (Jul 2016–Dec 2017): Senior Developer / Solution Architect — AIFMD and EMIR regulatory reporting rebuild; TPL Dataflow, nServiceBus, ReactJS; CI/CD Jenkins / TeamCity / Octopus.

**Sarasin & Partners** (Sept 2015–Jun 2016): Senior Developer — Middle/back-office system optimisation, ETL extracts, FileStream document migration.

**HSBC Global Asset Management** (May 2014–Aug 2015): Solution Architect — Greenfield fixed income attribution and reporting; multi-source ETL (SSIS), ASP.Net MVC, Control-M scheduling.

**Miller Insurance** (Oct 2013–Apr 2014): Senior Developer — Automated binder/bordereau reporting; SSIS, SSRS, ASP.Net MVC.

**Threadneedle Asset Management** (Oct 2012–Oct 2013): Senior Developer — Risk Metrics cloud integration; custom ETL, ASP.Net MVC, IoC/DI, Repository Pattern, XSLT.

**Transport for London** (Jul–Oct 2012): Senior Developer — PoC for Congestion Charging System replacement; N-Tier, TDD, SCRUM (6–11M messages/day throughput design).

**Liberum Capital** (Sept 2011–Jun 2012): Senior Developer — FSA/Unavista regulatory reporting, Bloomberg/Thomson Reuters feeds, PnL reporting, ASP.Net MVC.

**LexisNexis / Reed Elsevier** (Apr 2010–Jun 2011): Senior Developer / Team Leader — eCommerce document automation; ASP.Net MVC, jQuery, WCF, MS SQL.

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## **PRE-2010 ROLES (1995 – 2010)**

RWE Energy Trading, Standard Bank of South Africa, Paloma Securities, Barclays Capital, Commerz Bank, Arab Bank, KBC Financial Products, Freshfields Bruckhaus Deringer, Calford Seaden, SJ Berwin, London Development Agency, CMS Cameron McKenna, Linklaters & Alliance, Salomon Smith Barney, Industrial Bank of Japan, ING Barings — Senior Developer / Analyst Programmer roles across financial services and legal sectors.

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## **EDUCATION**

Open University (1999–2003): Post Graduate Diploma in Software Development — Software Engineering, Relational Database Systems (Merit), OO Development, Advanced Database Technology, Project Management, Human Computer Interaction.

Paddington Green College: B/TEC HNC Applied Science (1989), B/TEC ONC Applied Science (1986).