

Experienced full stack C# consultant

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Over 25 years' designing and creating green and brownfield solutions within the Microsoft ecosphere, the first decade in C++ and later C#. Immersion in diverse industry sectors has engendered the agility required to integrate with new environments and assimilate their underlying business drivers. These capabilities coupled with the discipline to deliver solo projects and ability to both cooperate and share knowledge with others will give positive results for your project.

Achievements include; writing a multi award-winning digital dictation product that propelled the client into The Sunday Times Microsoft Tech Track 100 for several successive years, creating a departmental level automated hardware testing platform for major phone manufacturer that scaled to multi-national deployment, employing agile techniques to enable a simple customer registration system to evolve into the replacement for both manufacturing and marketing MIS systems.

Skills

Languages	C# (1.0 onwards), C++, JavaScript	Environments	Azure DevOps, CruiseControl, TeamCity, VSTS
Testing	Specflow, MSTest, NSubstitute, NUnit	Design	Agile, TDD, UML
Web technologies	Angular, AJAX, ASP.NET MVC, Bootstrap, CSS, HTML, jQuery, XML, XSL, XSLT	Frameworks	ADO.NET, EF, LINQ, OWIN, WCF, WebForms, Win32, WinForms, WPF
Servers	IIS, LDAP, MSMQ, Oracle, SQL Server, WebSphere MQ	Source control	CVS, Git, Mercurial, Rational Synergy, Source Safe, SVN, TFVC

MCP in ASP.NET, WCF, .NET Framework, C#, VC++ 6, Windows Architecture I and WOSA I.

BSc (Hons.) 2:1 in Computer Science from Portsmouth University.

Full, clean driving license.

Experience

Myairops **C# contractor** **July 2018 to July 2019 (4 extensions)**

Skills Angular 7, AutoMapper, Azure DevOps / Functions / MessageBus, C# 7.3, Dapper, Entity Framework, Frisby, Git, Karma, Jasmine, NET Core 2.2, NUnit, SignalR, SQL Server 2017, Sybase, Typescript

Part of team producing an SaaS flight management system for handling chartering together with aircraft and crew administration. Implemented as Azure hosted RESTful .NET Core micro services using the repository pattern fronted by an Angular 7 website incorporating DevExtreme UI components. Work areas included:

- Created and maintained Azure DevOps build / release pipelines and ARM templates used for auto deployment.
- Utilisation of Azure Storage Bus message deferral to handle intra-service call failures. Incorporated into new back-end for existing iPhone app to Azure Functions leading to improved availability.
- Provision of invoice processing system for Gamma Aviation, a leading US jet charter company. Used GemBox to create XLSX reports for human approval and once verified to write CSVs for Sage import.
- Migration of SignalR based chat tool into Angular frontend for communication with existing third party clients.
- Produced EF based data migration / sync tool for transferring information from Sybase to Azure SQL.
- Design of database schema, creation of stored procedures and performance optimisation.
- Junior developer mentoring, code reviews, SME for invoice functionality.

LexisNexis **C# contractor** **April 2014 to May 2018 (5 extensions)**

Skills Angular, ASP.NET MVC, Aspose, AWS, Azure, C# 7.1, Entity Framework, Git, MSMQ, MSTest, NET Core, NHibernate, NSubstitute, NuGet, OWIN 3.1, RabbitMQ, SpecFlow, SQL Server 2016, VSTS, Visual Studio 2017, WCF, WiX, WPF

Slashed editorial costs by creating centralised taxonomy service for legal commentary systems which cut the time spent classifying documents. CI facilitated by VSTS, SonarQube, Specflow, MSTest and NSubstitute. Introduced Unity DI to improve test coverage. Resolved build stability issues with ProGet accessed by NuGet / NPM. Added New Relic reporting, permitting rapid identification of production issues. Work areas included:

- Updated tool critical for generating Tolley tax training manuals. Minimised printing costs with "tree saving" functionality. Greatly improved performance through parallelisation. Supported complex XSLT2 transforms via Saxon. Utilised Aspose for DOCX, ePub and PDF generation. Updated WPF UI to accommodate new functionality.
- Resolved fragile inter system messaging through RabbitMQ based protocol ensuring recoverable, guaranteed delivery.
- Taxonomies were presented in an Atom-like feed. Produced .NET Core PoC and final OWIN service to parse and store.

- Creation of Angular control allowing rapid document classification. Integrated into multiple ASP.NET editorial systems. Customisation of Xopus JavaScript control. Reduced hosting charges by migrating systems to Azure and AWS.
- Modification of web spidering service to support cross domain crawling and presentation of results via REST.
- Build script creation and maintenance together with VSTS and agent administration. Migration from TFVC to Git.

BBC, IBM, ICL, iMeta, Nokia, Royal Mail, Sony, Vertu and others Contract developer July 1992 to January 2014

Skills ADO.NET, Ajax, ANTS, ASP.NET, ATL, C, C#, C++, Castle Windsor, CC.NET, ClearCase, CM Synergy, CodeDom, COM, COM+, CTI, CVS, DAP, DCOM, DHTML, DRM, Entity Framework, FXCop, Hg, Jira, jQuery, LDAP, MFC, MQ, MSMQ, MVC, MSTest, NUnit, Oracle 10g, Rational Rose, Remoting, ReSharper, SagePay, SandCastle, Sitecore, SOAP, SourceSafe, SQL Server, SSRS, STL, SVN, TCP, TeamCity, Telerik, TFS, UML, VB.NET, Visual Studio, VSTO, WCF, WebForms, WebSphere MQ, Win32, WinForms, WWF, XML, XSL, XSLT

- Improved revenue flow from blood analyte testing system by introducing individual subscription periods. Data entry through ASP.NET, administration via WinForms. Liaison with end-users to fully understand updates. Addition of SagePay. Created new and revised existing SSRS definitions. Updated database schema and associated CSLA code.
- Created new source of income for Giant by allowing sale of time recording services to agencies. Website generated in Iron Speed. SagePay for subscriptions collection. Management reports through RDLC. Development of database schema. Automated database and website update tool.
- Satisfied Mid Staffs recommendations with anonymous feedback system for healthcare professionals. WPF client (delivered by ClickOnce) and ASP.NET MVC web site collected data. RESTful web service and tamper proof database securely stored concerns with confirmation messages sent via SMS.
- Extended Workflow Activity Library to communicate with a new insurance broker web service. Modified WWF used by GHG Loss Adjusters to use this new functionality.
- Customised SSI management system to meet requirements of specific financial institutions (such as Barclays and Credit Suisse). Wrote functional and task specifications, mentoring and code reviews for offshore developers, generated coded server-side WWF rules, extended WinForm custom controls, resolved UAT issues, modified proprietary ORM, optimised database, analysed and fixed WebSphere MQ 7.1 connectivity issues.
- Built new consumer website for Magnet with Sitecore. CMS extended to analyse user data from external database. Integration with third-party services; SAP, 20-20 kitchen design, Kayako Engage LiveChat, Postcode Anywhere.
- Development of Sitecore website for HSBC promoting opportunities in Emerging Markets. Reference point for integration with Thomson Reuters data feed (TRIS). Worked on site capacity plans.
- Realised BOM system used by Sony when specifying outside broadcasting units. Creation of VSTO Excel add-in utilising Sharepoint and Salesforce.com, maintained installer, created SSRS definitions, produced XLS data import tool.
- Creation of Excel add-in using VSTO and system services to check, summarise and distribute sales results to Sony management reporting systems. Production of supporting database schema.
- Enhancement of system capturing and organising emergency service calls and video recordings. Support for IPv6, fixed database threading / locking issues, added anti-tampering mechanisms, multi-threaded test harness to simulate concurrent requests, new admin functionality requiring updates to schema, server components and WinForm client.
- Design and develop WCF based RESTful web service secured by 2-way SSL to record purchases from O2 app store and generate reports from which developer payments were made.
- Produce system for Vertu to record phone manufacture, register customers and send information to third parties. Authentication via OpenLDAP. Implement ASP.NET support and customer web sites. Generated XSD describing SOAP interfaces. Produced XSLTs to map internal XML structures to external variants. Introduced CruiseControl.NET. Improved database performance and resolved deadlocks.
- Production in C# of mobile phone test system for Nokia. WWF Tests linked to a class framework simplifying common tasks, such as Audio capture, FFT analysis, DRM, OCR, error handling, memory leak analysis and report generation.
- Created multi-threaded server that processed digital dictation work flows and disseminated results to typists. Client authentication via NTLM or Active Directory. Design, develop and tune SQL Server schema.
- Designed and wrote Windows Media DRM system for use by both the BBC and their customers. For resilience the system was hosted within a load balanced web-farm with session data stored in a clustered SQL Server database.
- Creation of cross-platform (HP-UX, Windows 2000) isolation layer insulating Royal Mail from MQSeries.
- Part of team creating assured message delivery mechanism (MQSeries) for Windows from initial UNIX port to version 5.2. Activities included the provision of system services, exploitation of event logs, bridging the MQ and Win32 security models, provision of COM interfaces (MQAI), support for MSCS, integration with Active Directory and LDAP, XML based configuration. Third-line support entailing discussion with customers and support staff worldwide.
- Production of multi-threaded financial data feed server which disseminated data from ISDN and satellite to workstations. Acted as reference point for data feed handling. Liaison with feed suppliers and LSE