

Experienced full stack C# consultant

Ross Fruen | British citizen | Basingstoke

A quality driven, agile, software developer with over 30 years' experience of designing and creating solutions within the Microsoft ecosphere, the first decade in C++ and later C# with a pragmatic approach to BDD, DRY, SOLID, TDD, etc. Working in diverse industry sectors within varied team sizes has engendered the ability to quickly integrate with new environments and assimilate their underlying business drivers. These attributes coupled with the discipline to deliver solo projects and an ability to both cooperate and share knowledge with others will give positive results for your project.

Flexible on contract duration from single days to multiple years, an average being 16 months with 3 extensions.

Skills

Collaboration	Azure DevOps, CruiseControl, CVS, Git, Mercurial, Rational Synergy, Source Safe, SVN, TFVC, TeamCity, VSTS	Cloud	AWS API Gateway, CloudWatch, Cognito, DynamoDB, IAM, Lambda, OpenSearch, RDS, S3, SES, SNS, SQS Azure Functions, Message Bus, Monitoring
Frameworks	Angular, ASP.Net MVC, Bootstrap, Ionic, WCF, WebForms, WinForms	Programming	C#, C++, JavaScript, TypeScript
Storage	Dapper, EF, Elastic, DynamoDB, IndexedDB, MySQL, Oracle, SQL Server	Testing	BDD, Jest, Jasmine, MSTest, NSubstitute, NUnit, Specflow, TDD, XUnit

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

EMR **Contract developer** **August 2022 to February 2023**
Skills Angular, Azure MessageBus / SQL, C# 8.0, Dart, Entity Framework, Flutter, Git, Jasmine, MSTest, .NET 6, Typescript

Extending functionality of Angular and Flutter based websites used to record purchases, sales and perform operational planning for metal recycling centres. Work areas included:

- Addition of new feature to Angular app that managed routes to market for stock
- Extension of existing Flutter based tool to track stock levels
- Migration and refactoring of existing stand-alone Flutter application into a new common corporate framework
- Report generation using EPPlus (for Excel) and QuestPDF
- Introduction of queue and event driven architecture for transport booking

Q-Bot **Contract developer** **July 2019 to July 2022 (6 extensions)**
Skills Autodesk, Angular, AWS API Gateway, DynamoDB, Lambda, S3, SES, SNS, SQS, Azure DevOps, C# 8.0, Git, Ionic, Jasmine, MSTest, NET Core 3.1, OpenXML, RxJS, Typescript, xUnit

Creation of Ionic based website and associated micro services for the display of information collected by and management of a robot fleet used to apply underfloor insulation. Work areas included:

- Epic, feature and task creation together with sprint ceremony management
- Generation of multiple Azure DevOps CI/CD pipelines using Jasmine, xUnit and SonarQube for quality control
- Ingesting robot data presented in SQS messages into DynamoDB and S3
- Report generation via OpenXML and Kibana. Elastic populated via DynamoDB changes triggering SNS topics
- Provision of offline functionality for website via RxJS, the IndexedDB and service workers
- Use of Pannellum and Autodesk viewers for presentation of panoramas and associated thermal overlays
- Integration with Xero to raise quotes and invoices.
- Equipment management – availability, bookings and fault reporting with TOTP used for device security

BBC, IBM, ICL, LexisNexis, Nokia, Royal Mail, Sony, Vertu, etc. **Contract developer** **July 1992 to July 20189**
Skills ADO, Ajax, Angular, ASP, Aspose, ATL, AWS, AutoMapper, Azure DevOps / Functions / MessageBus C, C#, C++, Castle Windsor, CC.NET, ClearCase, CM Synergy, CodeDom, COM, COM+, CTI, CVS, DAP, Dapper, DCOM, DHTML, DRM, Entity Framework, Frisby, FXCop, Git, Hg, Jira, jQuery, LDAP, MFC, MQ, MSMQ, MVC, MSTest, Net Core, NHibernate, NSubstitute, NUnit, Oracle 10g, OWIN, Rational Rose, Remoting, ReSharper, SagePay, SandCastle, SignalR, Sitecore, SOAP,

SourceSafe, SQL Server, SSRS, STL, SVN, TCP, TeamCity, Telerik, TFS, TypeScript, UML, VB.NET, Visual Studio, VSTS, VSTO, WCF, WebForms, WebSphere MQ, Win32, WinForms, WCF, WiX, WPF, WWF, XML, XSL, XSLT

- Created SaaS based flight management system for Gama Aviation using Azure hosted .NET Core micro services with Angular 7 front-end. Intra-service comms via Storage Bus. Creation of SignalR based chat tool. Invoice processing system generating GemBox based reports prior to Sage import. Database schema design and optimisation. EF based tool for migration from Sybase to Azure SQL. Creation of Azure DevOps CI/CD pipeline. Code reviews and mentoring.
- Slashed editorial costs by creating centralised taxonomy service for LexisNexis 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.
- 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