

Michael Justus

Newbury, UK

+44 741 758 2942 • micjustus@gmail.com

linkedin.com/in/michael-justus-6572362/

Technical Architect / Senior Software Engineer

15+ years' concrete success in designing and delivering bespoke solutions to improve business productivity and fulfil requirements.

An accomplished and highly resourceful I.T. professional with a significant track record of accumulating user requirements and needs to ensure the development of practical solutions while maintaining high levels of quality. Recognised as an outstanding performer in challenging and stressful situations by maintaining calm exposure. Proven communicator; capable of capturing and interpreting requests from the customer's perspective to create high-quality coding and architectural documentation. Demonstrated ability to lead cross-functional teams and utilise personal judgement to ensure a common-sense approach to software solutions and coding. Excellent interpersonal skills leveraged to liaise across various organisational levels, including senior management, clients, and staff members, while seamlessly communicating progress updates.

Solution Design & Delivery / Architectural Planning & Design / Software Engineering & Coding

User Experience Improvement / Team Leadership & Support

Product Testing & Troubleshooting / Quality Assurance & Control / Risk Assessment & Mitigation

Technical Proficiencies

Programming Languages: C#; C++; Visual Basic; Delphi; JavaScript; TypeScript, HTML 5; CSS 3; T-SQL

Databases: Microsoft SQL Server; Couchbase; Neo4j; MySQL; SQL Compact

Software Practices: Unit Testing; Agile Development; Scrum; VSTFS; Git

Tools: Visual Studio 2013-2022; Visual Studio Code; RAD Studio; Powershell

O.S.: Microsoft Windows 8, CE 5/6, 7; Windows Embedded; Windows 10

Software Frameworks: nHibernate; Ninject; Entity Framework; ASP.NET; Castle Windsor; Identity framework; jQuery; knock-out.js; Angular

Architecture & Design: TOGAF 9.2 (Framework); ArchiMate 3.1, UML, BPMN (basic); Sparx EA (for tooling)

Hardware: Radio Frequency Identification (EPC Gen2); Global Positioning Systems (GPS); Barcode scanners; Programmable Logic Controllers; Optical Character Recognition Engines

Other: Tyk (API Gateway); Docker Containers; Micro-service architecture; service-orientated architecture; REST API; OpenAPI 3.0

Professional Experience

Senior Software Engineer (2021 – Present)

Sensium Healthcare, Abingdon, UK

Technical Scope: Swagger OpenAPI, SQL Server, MVC, REST API, C#, Visual Studio, ASP.NET Core, Windows Presentation Foundation, Unit testing, Git, JIRA, Powershell

Deliver and improve quality of software implementations for several APIs and back end services. Significantly reengineer the company's existing installation product that better secures sensitive information, minimises deployment errors, and automates several manual deployment functions. Deliver and maintain unit tests for existing or new code and provide daily feedback on bugs, enhancements or new features. Maintain a collaborative spirit to foster creativity and support of team members and testers.

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Michael Justus

Page Two

Key Contributions:

- Reduced product and service deployment times to roughly five minutes from half a day.
- Refactored several APIs using best practices such as single responsibility, reducing debugging effort and improving code maintainability.
- Improved the company's Powershell-based service monitoring and reporting product by better handling check failure conditions. Output alerts contain company branding and support infrastructure if manual monitoring requires intervention.
- Delivered a high-performance vital signs integration service using threading based on the HL7 message format.

Technical Architect (2016 – late 2020)

Achilles Information Limited, Abington, U.K.

Technical Scope: neo4j, Swagger OpenAPI, SQL Server, Couchbase, Angular, JavaScript, MVC, REST API, C#, Docker, Azure B2C, Visual Studio (Code), Tyk API Gateway, nServiceBus, Amazon SES, Micro-service Architecture, .NET Core

Execute and oversee critical operations for one of Europe's largest scrum projects, including solution analysis, design, documentation, communication, and stakeholder negotiation. Prepare comprehensive solution design documentation using UML components/classes, UML activity, UML sequence, and process flows. Develop insights into essential product functions by conducting 15+ vendor product evaluations and facilitating demonstrations based on requirements. Utilise proven knowledge of OpenAPI 3.0 to develop and maintain REST API specifications. Contribute to ensuring maximum solution quality through in-depth reviews of development code and architecture solution documentation, designs, and data queries.

Key Contributions:

- Served as a primary designer for more than 50 REST APIs.
- Generated substantial maintenance cost savings by identifying and resolving design conflicts in solution design, product, data, and security.
- Designed and delivered more than 100 high-quality architecture solution artefacts.

Senior Web Developer (2014 – 2015)

Dariel Solutions, Johannesburg, South Africa

Technical Scope: HTML, CSS, Knockout.js, MVC, jQuery 2.1, WebMethods, C#

Drove seamless integration of business functionality in client's (MultiChoice) Field Service Installer Application product via HTML, JavaScript, CSS, and WebMethods. Steered significant collaborative efforts as part of an agile team to enable code development aligned with the team's architect and business analysts' requirements. Prepared and delivered engaging demonstrations for product progress at the end of each sprint.

Key Contribution:

- Introduced innovative web methods for the client's products through HTML, CSS, and JavaScript.

Contract Software Developer (2014)

Ohlthaver & List, Namibia, South Africa

Technical Scope: Windows C.E., SQL Compact, REST API, SAP, RFID, C#, Windows Forms, Data Streaming, ZIP files, Error correction, Entity Framework

Streamlined I.T. operations by engineering (front-end and back-end) mobile asset tracking solution using Windows Forms and C#. Proactively gathered business process information, data flows, and security requirements. Maximised overall quality of the delivered solution through frequent on-site testing and customer engagement that eliminated critical operating issues and integrated additional requirements.

Key Contributions:

- Achieved minimisation of complex deployment bugs via contract-based programming.
- Designed and implemented multiple services to ensure timely upgrade of tracked data to SAP system through REST APIs.
- Engineered remote monitoring tool to constantly monitor the stability of the product.

Senior Software Engineer (2012 – 2014) TransAfrica Asset Control Technologies, Namibia/Rwanda, South Africa

Technical Scope: Windows CE 5/6, SQL Compact, REST API, SAGE ERP, JSON, SAP, RFID, Barcode scanners, Input/output devices, C#, Visual Studio

Proactively monitored fuel performance architecting and engineering a vehicle-mounted, handheld mobile (Windows C.E.) fuel tracking solution. Ensured easy data access and persistence by leveraging SQL Compact. Coordinated thorough analysis of use-cases requirements and gathering and integrated necessary stakeholder feedback to ensure functional requirements were met. Identified weaknesses and potential issues of the new product through rigorous, on-the-ground testing. Disseminated critical information and notification alerts to various personnel by using SMTP protocol. Collaborated with team lead to maintain strict compliance of business processes with desired requirements. Drove implementation using sound, accepted best coding practices.

Key Contributions:

- Enabled top-tier stability of data communications by regularly engaging with project managers and engineering a hardware-agnostic device integration layer.
- Delivered significant assistance in the coding of front and back-end (Windows Forms, C#) to introduce an animal feed management solution, mitigating wasted costs to farmers in ration feed allocation.
- Fostered the creation of software APIs to centralise data from mobile devices to the client's Sage ERP server via the X3 API.
- Improved the end-users ability to quickly use the solutions by providing robust, hands-on training sessions.
- Leveraged knowledge of back-end WCF services in C# to increase mineral tracking system performance and stability.
- Facilitated informed decision-making by formulating comprehensive reports via OpenXML SDK.

Additional Experience: *Senior .NET Developer at Investec, Software Engineer at idCommerce, Software Developer at Investment Solutions, Software Engineer at Ipico Africa, Software Developer at Performance Budgeting Systems,*

(Additional information available on request)

Education & Courses

MSc in Computer Science (shall be completed ~2022/23) – University of Essex Online, U.K.

National Diploma in Computer Sciences – Vaal Triangle Technikon, South Africa

RFID Programming for Intermec Hardware – South Africa