

Curriculum Vitae

Personal Details

Name:

Craig Wardman BSc. Hons

DOB:

07-May-1984

Nationality:

English, British



Key Skills

.NET

I have been working in **.NET** for several years now. I have become habituated to its methodologies and feel comfortable developing any application. I have developed both **desktop** and **web based applications**, using the **C#** language. In my latest projects I have been using **asynchronous programming** to make best use of resources and plug into the asynchronous versions of SDKs which are now the preferred choice for **optimal performance**.

Software & System Architecture

I have a great understanding of **software & system architectures** and their concepts and benefits. On the software architecture front, most applications warrant at least a **multi-tier architecture** to separate the concerns of data access, business logic and user interface. This is usually sufficient for small CRUD type applications but for larger applications I tend to use principles of **Domain Driven Design onion architecture** with **domain modelling, bounded contexts, repository pattern, CQRS** etc. This allows for the separation of domain logic from technical implementation details and protects the domain from being in an invalid state. It also lends itself to using **TDD** techniques since it promotes **loC** and **SOLID principles**. In the past, when **n-tier architectures** were the architecture of choice I created my own n-tier architecture in templates using CodeSmith which generates a 4 tier C# codebase. This architecture allows me to quickly start building application and presentation logic on top of my extensible business and data layers, which take care of the CRUD functionality and follows the manager pattern.

On the **system architecture** front, I design larger applications as smaller **API based components (micro services)**, corresponding to the bounded context or product boundary to wrap each piece of functionality in its own API and then loosely integrate it into the main application. The **repository pattern** also allows a layer of **anti-corruption** between third party APIs and the application structure. I would also design in concepts like **distributed state** for **web-farm/load balanced** scenarios, **caching** layers for **performance**, contextually relevant storage technology and usage of **cloud APIs** such as queues and web jobs for separating long running tasks.

Web services (WCF/REST/RPC API)

I have used **service based architectures** for quite some time, since I developed **Silverlight** applications in the past which ran against a set of **WCF** services and more recently I use **WebAPI** and micro service approach to create a **service oriented architecture** as a way to break applications into smaller components, allowing for separation of concern and black boxing of implementation details. I do this using a mixture of **RESTful** and **RPC** style API, depending on the context.

Web Development

In my career I have built many **web applications** and also continue to build them in the **.NET** environment, more recently in **ASP.NET MVC**. I have a working knowledge of **HTML/CSS/JavaScript** and some front-

end frameworks such as **jQuery & Bootstrap** and I'm currently extending my knowledge of other front-end frameworks such as **React**.

SQL

I have extensive knowledge of creating and maintaining databases in **Microsoft SQL Server**, including creating users, roles, tables, indexes, stored procedures and setting permissions. I have knowledge of using simple and complex SQL statements, both DDL and DML. Having been interested in the **performance tuning** aspects of MS-SQL I have learned a great deal on how to optimize databases and related code.

NoSQL

When storing unstructured data, I have generally stored in **JSON** format using **CosmosDB**, **Table Storage**, or **SQL** to store the data.

Misc

- Microsoft Visual Studio + NuGet + Team Foundation Server/Subversion/Git
- Visual Studio Team Services, Continuous Integration, Continuous Deployment
- Microsoft Azure
- Microsoft IIS
- OOP (Object Oriented Programming) - SOLID principles

Work Experience

Jan 2018 - Present - (Contract)

Working as a **contract software development consultant** providing help, support and guidance to the new development team of Kinetic's flagship "Aureus" product. This is a large **Microsoft stack Azure based project** with many components, which I designed and built while working for Kinetic. I was offered a short term contract to help mitigate the risk of outsourcing the project, by providing my expertise and knowledge of the system.

Feb 2015 - Dec 2017

In February 2015 I was promoted within Kinetic to **Solution Architect and Development Lead**. Continuing my work as a developer but now also leading the development team tactically and operationally. My role consists of such things as **defining standards and practices**, following the **Agile** methodology, **source control management**, setting up of **CI/CD** pipelines, creating & managing an **Azure PaaS environment** and providing support to the business and colleagues. I am still involved in the implementation of the software architecture, from providing various levels of high level **architecture designs** to writing the code in **C#**. We are now using **ASP.NET MVC** and **React** as our front end web technologies and using **ASP.NET WebAPI** for separation of the various components in the software. We have also adopted **domain driven design** techniques and it's supporting architectures (**OOP**, **IoC**, **Domain Modelling**, **Repository Pattern** etc.) in the core code. We are also now making use of various **Azure cloud services** such as **blob/table/queue storage**, **AAD**, **Redis cache**, **Azure Search**, **SQL Azure** and more - all of which I am involved with from a planning/design perspective but also hands on technical perspective.

Mar 2010: - Mar 2015:

I returned to Kinetic Worldwide as a **senior developer** using **ASP.NET** in VB and C#, building tools that are specifically aimed at our specialist OOH planning teams. During this time, amongst other things, I worked on several complex **reach and frequency calculation models** from different global vendors, **optimising the algorithms** for speed and building innovative new concepts on top of the underlying outputs. Building the core software in **c#** but now with **Silverlight and WCF**.

July 2009 - Jan 2016

Alongside my permanent employment, during this time I acted as **IT Director** for a company I started with 3 others. In this capacity I **designed, built and maintained** an online shopping portal **optimised for**

search engine friendliness, to generate product leads for businesses and to help consumers find the best deals on products across multiple sections. Written in **ASP.NET**, **c# n-tier architecture** and **MS-SQL** backend with many **integrations** such as xml feeds with clients and 3rd party advertising channels, CAP automotive data, vrm lookup, geocoding, sagepay payments and more. Unfortunately this business did not generate enough revenue to continue and the site has now closed.

Older work experience: -

Since my graduation in 2005, I have worked in various roles as a software/web developer using the Microsoft development stack of .NET (ASP.NET/C#) with MS-SQL data layer - building e-commerce websites, CMS web applications and various other web based applications. During this time I built on my University degree foundation of knowledge to become a more proficient coder, finessing my architectural approach to creating pragmatic software solutions.

Education

2004 - 2005:

Bradford University

2002 - 2004:

Bradford College, Higher Education.

2000 - 2002:

Bradford College, Further Education.

1995 - 2000:

Royds Secondary School, Oulton, Leeds.

Qualifications

1st Class BSc (hons.)

Software Development Applications

Higher National Diploma

Software Engineering

AVCE

Information and Communication Technology (ICT)

Misc

- ISEB Intermediate Certificate in Enterprise and Solution Architecture
- City & Guilds C++ (Level 3)
- City & Guilds Java (Level 3)

- 11x GCSE's:

Interests

I have a wide variety of interests and like to continually learn about new things. Of course, I have an interest in I.T. and specifically in software, architecture and performance. Outside of I.T. subjects I like health and fitness such as weight lifting and practicing Taekwondo in which I am currently 2nd Dan black belt. I am also a car and driving enthusiast, which extends from simply admiring the styling or performance of a great car, to watching Formula 1 and WRC, to improving my own skills having taken my IAM advanced driving test and participating in several track days. I also have an interest in the Russian language, which I have been learning from the Internet since 2012.

Employment History

- Pragmatech Software Solutions - Software Development Consultant / MD (Jan 2018 - current)
- Kinetic - Solution Architect & Development Lead (Feb 2015-Dec 2017)
- Kinetic - Senior Developer (Mar 2010-Feb 2015)
- WMG - Software Developer (July 2008-Mar 2010)
- Kinetic - Software Developer (Mar 2007-July 2008)
- Adtec Software - Software Developer (Sep 2005-Mar 2007)