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| SummaryEighteen years of web and desktop development, consulting for national and multinational companies. I set up the first Unix and Windows intranet for Proximus, Belgium, plus worked on their first Internet site in 1997. I then set up the first Windows web servers and developed the first ASP-based ecommerce applications for Shell Research in the Netherlands. I worked in the architecture team as a developer for Aviva when they moved their insurance to the web. Since then I have architected and developed the full stack for several financial applications and worked for The Pensions Regulator on their internal and external web applications. I also write mobile apps for Android and Windows as a hobby, when I have time. I also do devops for several community web sites. |
| Key Skills* C# and ASP.NET, since Beta. MVC, WPF, (Web Forms and Windows Forms).
* UML, OO, and Design Patterns.
* Raw Sql Server plus various ORMs: NHibernate, Linq, Entity Framework. MongoDb, Elasticsearch.
* HTML, CSS, many JavaScript frameworks (Angular 1 and 2/jQuery//Knockout/ jQuery Mobile).
* Test driven development.
* Inversion of Control (IOC) using Simple Injector, Castle Windsor, and Unity.
* Test object mocking with Rhino Mocks and Moq.
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| Work History |
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| Developer | *Informa Plc* |
| February 2016-May 2016 | For Informa’s pharmaceutical division, I wrote a *proof of concept* search engine that imported data from a Sql database and inserted it into Elasticsearch. I then wrote a single-page web front-end using Angular that queried the Elasticsearch database for enriched searches. I also wrote an Odata web API over the same data. |
| Lead Developer and Architect | *PlainSail Wealth Limited* |
| July 2014-November 2016 | Designed and developed a large financial desktop application. The product consists of several main modules – notably, client management, document management, bookkeeping, timekeeping, and reporting – which allow our clients to move away from using spreadsheets and, instead, manage complex client relationships in a controlled manner. Built using WPF, Caliburn MVVM, and Entity Framework, it also has a minimal web client written in Angular 2. I was the architect and senior developer on this project and wrote all the infrastructure, security and service layers plus about 40% of the UI, including the Angular 2. <http://plainsailwealth.com/>  |
| .NET Consultant | *The Pensions Regulator* |
| February 2012-July 2014 | Working with .NET4, MVC3, NHibernate, WCF, Mass Transit. TDD, BDD and Agile. Lots of JavaScript frontend using TDD with qUnit and Knockout. |
| Architect and Developer | *ProofByDesign.com (my company)* |
| October 2011-January 2012 | I spent three months on an entrepreneurial venture, writing <http://www.gigsupclose.com>. MVC3 Razor, Fluent NHibernate, jQuery Mobile, Sql Spatial (for geolocation) and Google Maps API. Apart from the above frameworks, everything was written by me, including security, membership, calendar, scheduling, and the search engine. I mainly did this to learn certain technologies and to provide a service to the Brighton music community. |
| Technical Architect and Lead Developer | *Lloyds TSB Bank* |
| November2010-September 2011 | Designed and wrote a new application framework that encompassed data access, security, logging, testing, and MVC architecture, using Fluent NHibernate 3, and MVC 2. Currently four applications that use this framework have been written and deployed. I wrote and delivered a skills-transfer course for Lloyds in-house staff to teach them the concepts behind standard development methodologies—ORM, TDD, MVC, and CI. |
| .NET Developer | *Paxton Access Limited, Brighton* |
| July 2010-November 2010 | Designed and developed several key components in .NET 4 using Entity Framework and the Parallel library for high-throughput, multi-threaded processing of events sent from ACU devices. One was a persistent queue for buffering of events and command objects on disk, using Parallel tasks and collections; the other was a database monitoring component that uses Sql Server 2008 Change Tracking for deciphering changes to key data in a lightweight manner. |
| Android Developer | During the summer of 2010, I took three months out to learn Android. I wrote several proof of concept applications purely as a means to get experience. One of my apps, OftSeen Gestures, has had 9,000 downloads and has 3,000 active users. |
| .NET Developer | Reed Business Information,Sutton. |
| October 2009-April 2010 | I wrote an asynchronous messaging hub to bridge a Request For Quotation (RFQ) website and the SalesForce CRM system. Using .NET 3.5, WCF, and traditional web services with token-based and IP-level security. Used Enterprise Library Logging, Rhino Mocks, Castle Windsor IOC, Team Foundation Server. |

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| .NET Developer | QSoft Consulting, London. |
| September 2008-August 2009 | I wrote the UI and server for a central, online payments system for all of QSoft’s (Gaydar brand) web sites to enable payment in local currency worldwide. The application consists of the online functions (integrating with diverse merchant gateways) and the internal admin functions for customer support and accounts. Written using .NET 2 with NHibernate, Castle Windsor, and JQuery using Agile methodology. We developed our own ASP MVP (Model-View-Presenter) framework for the UI. |

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| ASP.NET Developer | BidRoute, London. |
| December 2006-August 2008 | [BidRoute](http://www.ipe.com/bidroute-launches-to-improve-the-buy-route/22201.fullarticle) is a price-discovery and auction site for portfolio trades. I developed the web front-end using ASP.NET 2 with lots of Ajax. It speaks to the back end using Windows Communication Framework (WCF). The site is time-zone and culture aware. After launch the product won the ICFA award for the *Most Innovative Custody/Fund Administration Project of the Year*.<http://www.canadianhedgewatch.com/content/news/general/?id=2998> (Note that BidRoute appear to have sadly become a victim of the ‘credit crunch’.)I also wrote them a Google Enterprise Search application which layers historical stock prices onto company documents related to portfolio trades. Written in .NET 3.5, using Linq and WCF on the back end with some ASP Ajax and a lot of JQuery on the front end. |

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| ASP.NET Developer | FDM Group, Brighton |
| September 2006- December 2006 | [BrandIQ](http://www.brandiq.co.uk/) website built on SQL 2000 using Domain Driven Design in .NET 2, implemented from the business layer back using NetTiers, with lots of Ajax on the UI. The application is basically a large, dynamic query engine for advertising agencies to query advertising spend by brand, market sector, and various demographic and geographic criteria. I designed and built the dynamic query engine, based on Martin Fowler’s *QueryObject* pattern, as well as building the query screens using Ajax and my own Outlook-style rules builder in JavaScript.  |

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| ASP.NET Developer | Cofunds, London |
| Feb 2006- August 2006 | [Cofunds](http://www.cofunds.co.uk/) is an independent fund manager. They expanded their product range to include online pension selling to IFAs. I was hired to do the mid-tier and back-end programming, which included business agents (C#) for database and web service access, XSLT stylesheets for business message transformations, a multi-threaded Windows service (C#) for asynchronous message processing, plus all of the database schema changes and programming in SQL Server 2000. |

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| ASP.NET Developer | Kroll Worldwide, UK |
| July 2005- Jan 2006 | [Kroll](http://www.krollbackgroundscreening.com/) specialises in background screening of employees. I wrote the MI Reporting and invoicing modules for their new application, using SQL Server (2000) Reporting Services and C# .NET. |

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| Earlier Project Summaries (all contracts unless otherwise stated) |
| 01/04-07/05  | Freelance consultant, mainly working on ASP.NET and C# GUI applications for various clients. |
| 05/03 -12/03 | Tech Support/Developer for [RiskFactor Solutions](http://www.riskfactor-solutions.com/). VB6, ASP, SQL Server. |
| 02/01-05/03 | Architect/Developer for Aviva, UK. Mainly ASP+VB, COM, and XSLT. |
| 12/99-02/01 | Solutions developer for GE Capital IT Solutions. VB6, ASP, SQL Server. |
| 05/99-11/99 | Wrote satellite box configuration program for the IBS division of Mindport, using VB6 and ADO on top of an Oracle database. |
| 03-98-03/99 | Applications developer for Shell Services International, Rijswijk, Netherlands. Perl on Unix and ASP/VB on Windows. |
| 03/97-03/98 | Web technician for Proximus, Brussels, UNIX and Windows NT. Perl, ASP, VB. |
| 1988 to 1997 | I started my IT career at [Macro 4](http://www.macro4.com) after leaving university. I started permanent work as a Technical Author, became Senior Technical Author, and then managed the documentation for their Open (Unix) systems (all the time, programming obsessively). |

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| Higher Education |
| **Crawley College of Technology***(night school) 1994* | BTEC in C programming. |
| **University of Sussex***1987-88* | MA in 20th century literature and philosophy. |
| **University of Sussex***1984-87* | BA in English literature, grade 2.i. |