

Martin Gill

Curriculum Vitae

May 2018

Summary

I am an established freelance computer consultant with over 30 years professional IT experience.

A Cambridge maths/computer science graduate, I've worked for many leading private and public sector organisations in roles ranging over the full development life cycle, including project management, analysis and design, programming, QA testing and roll out.

Most recently I have focused on web-based development including working in Agile/Scrum environments using tools such as JIRA, Confluence, Fisheye and Bitbucket in conjunction with CI/CD tools (Jenkins, automated testing).

I am familiar with a range of operating environments including Linux (Red Hat/Centos, Debian/Ubuntu), Windows, Unix and mainframe systems. I have hands on experience of a range of web based services including Apache, Nginx, AWS, VMware, OpenAthens, RADIUS, BIND, various email servers, DHCP, IOS, firewall management, etc.

I can code confidently in a range of popular languages including PHP (Zend, Symfony, MVC), Perl, C/C++/C#, Java (EJB, JSP, JBoss, SOAP/REST APIs), Javascript (jQuery, NodeJS, Angular, Handlebars) as well as HTML/CSS/XML etc.

I have a strong foundation in Object-oriented design and development techniques coupled with a sound understanding of database design and administration including the use of Oracle (PL/SQL), Sybase, MySQL/MariaDB, Ingres/Postgresql and SQL Server.

Personal Details

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		Nationality	UK
Date of Birth	29 December, 1965		

Education and Qualifications

1977 - 1984 Kimberworth School/Thomas Rotherham College, Rotherham.
GCE - 10 'O' Levels (9A, 1B), 5 'A' Levels (4A, 1B), 2 'S' Levels.

1984 - 1987 Churchill College, University of Cambridge B. A. Hons. (2.1), M. A.

Summary of Computing Experience

Roles Programming, Analysis/Design, Project Management, System Testing.

Applications Telecomms (ISP/networking). Retail finance (debit/credit cards. loans/credit scoring). Investment fund management. GIS. Public sector.

Methods Agile. OOA/D (Booch, Rumbaugh/OMT, UML), SSADM (COP), PRINCE.

Hardware Windows, Unix, Linux (Redhat/Debian). ICL 3900, IBM 3090, Tandem.

Databases Oracle, MySQL/MariaDB, SQL Server, Sybase, Ingres, PostgreSQL.

Languages PHP (Zend, Symfony, MVC), C/C++/C#/Pro*C, Java (EJB, JSP. JBoss, SOAP/REST APIs), Javascript (jQuery, NodeJS, Angular, Handlebars), SQL, PL/SQL, Perl, HTML/CSS/XML, Unix shell scripting, COBOL, Lisp, Basic.

Tools Apache, Nginx, VMware, RADIUS, BIND, various email servers, DHCP, IOS.

(Jan-Jun 2018)	Plusnet Plc, Sheffield	(Contract)
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Project to apply various changes to the company's web sites and internal systems for compliance with GDPR and ASA regulations.

The contract involved working as part of a small team in an Agile/Scrum environment using tools JIRA, Confluence, Git and Fisheye tools for project and code management. Code changes were delivered on a CI/CD basis using Jenkins along with various automated test tools.

The work, which was delivered to tight timescales, involved coding primarily in PHP (including MVC and Symfony frameworks and PHPUnit for testing) with some Java (EJB, JBoss, REST/SOAP), Javascript (NodeJS, Handlebars) and CSS work. The core systems ran on a Linux (Debian/Ubuntu)/ Apache / MySQL platform.

(2007 – 2017)	Various Freelance Roles	(Contract and/or Fixed Price)
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Foodservice Solutions Network Ltd.- Development of a bespoke purchasing management package used by a number of national catering firms including modules for supplier control and accounting, menu costing, allergen and nutrient analysis (CoFIDs), site reporting and stock management. Coding of web based elements in PHP including front end jQuery/Javascript including database design (MySQL/MariaDB) with server-side tools written in C++ and Perl/BASH hosted on a distributed platform (Red Hat/Centos, AWS) including VPN, RADIUS, Samba.

Radiowaves Schools Ltd. (educational resources - Apache/Tomcat, AWS)
 Department of Health (service mapping - GIS Consultancy, Access, Javascript)
 Microform Academic Publishers (online archives - PHP/MySQL, Shibboleth/OpenAthens)
 Expost Holdings Ltd. (web management software for mail handling - PHP/Angular JS)
 Wentworth Woodhouse (events management and bookings system - PHP/MySQL/jQuery)
 Escapes 2 (international property sales - SQL Server, C#, .Net, Windows server)
 Sheffield Hallam University (web-based historical flood claims database and GIS)
 North East War Memorials Project (data conversion and import - MySQL, MS Office, PHP)
 Eli Lilly, Cork (pharmaceutical application - C programming on Unix)
 World Air Sim Group (C++ real time games coding).
 Net Lawman Ltd (online legal documents - server management, LAMP stack)
 Appstation Ltd (Motivity mobile apps - hosting and security consultancy)
 Places in the Sun Ltd. (overseas property rental web site and hosting - PHP/MySQL)
 BP/Sheffield Business Systems (Cisco IOS/HSRP, resilient server/router configuration)

Plus general web hosting and development consultancy for various clients (mainly using Linux/Apache/MySQL/Perl with CMS tools including Wordpress, Magento, Joomla, Drupal).

(2002 – 2006)	HSBC Bank plc, Sheffield	(Contract, P/T)
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Bespoke development of a web-based interface and associated server-side code used to monitor traffic the bank's national X.25 network using C/C++ and Perl scripting on HP-UX.

Development of a bespoke web based interface to VitalQIP (DNS/DHCP management software) used to run the bank's internal IP network including database design/administration (Sybase) and Perl, plus Javascript/HTML development on a distributed Red Hat Linux platform.

(1993 - 2013)	Taylor Woodrow / Asset Data Services	(Contract, P/T)
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Software Developer for TEAMS: an award winning field survey and asset management tool originally developed for Taylor Woodrow Construction Ltd. but later subject to a management buyout for which ongoing support was provided on a consultancy basis. Included support and development of field software running on pen-based hardware as well as maintenance of interfaces to about 50 local authority GIS systems

There was involvement in all aspects of development, including analysis and design (using OO techniques based on Booch/Rational), relational database design, project management, programming, testing and ongoing technical support. Tools used included Microsoft Visual C++, MFC, OLE, MKS RCS, PowerProject and RoboHelp.

The system ran on office and field-based hardware and links to numerous existing systems were built including Smallworld, Intergraph, MapInfo, SUS25, STC25, AutoCAD, Symology, Mayrise and RMMS. The system worked with a number of ODBC-compliant databases such as Oracle V6/7, Gupta, Sybase SQL Anywhere and Watcom SQL.

(1999 –2002)	Post Office/Royal Mail plc, Chesterfield	(Contract)
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The role involved design work, plus development using Constellar Hub, Oracle 8i, Siebel, Designer/2000, PL/SQL, Pro*C/C++, Visual Basic, HTML, XML, Business Objects v4/5, HP-UX scripting and support for testing and production. For some projects there was the added responsibility of acting as project DBA responsible for all pre-production schema management, performance tuning and sizing issues.

(2001 – 2002)	CADCentre, Chesterfield	(Contract)
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Development of an isometric drawing management package using C++ (MFC/OLE/COM), ActiveX, Pro*C and Visual Basic (DAO/ODBC) to interface to an Oracle 9i database and the company's bespoke PDMS CAD package. Involved development of 3D plot viewing code in C++/OLE and conversion of existing Unix/Pro*C/Oracle code, plus Oracle DBA work and some use of Oracle Forms/Reports. Much of the development work was carried out off-site. This complex system was delivered ahead of time and within budget.

(2000)	Halifax plc, Halifax	(Contract - Fixed Price)
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Undertook a small off-site project for Halifax plc to develop part of a new system for the Mortgage Intermediary Management department to handle the payment of commission to Independent Financial Advisers for sales of Halifax mortgage and insurance products. This was a Windows NT based system and the role involved use of VB, Oracle 8i and BusinessObjects v4.

Other/Earlier Work		(Contract)
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1996 - 1998 Equifax, Bradford

Senior Analyst/Programmer responsible for the analysis, design and implementation of significant areas of functionality for the company's *Decisions* suite.

1992 –1993 ICL (UK) Ltd., Leeds

Analyst/Designer working on enhancements to a local authority accounting system (Synergy) using SSADM Version 4, ICL DRS6000 (Unix) and Progress 4GL/RDBMS.

1991 –1992 DSS (ITSA), Newcastle-upon-Tyne

Analyst/Designer on a project to develop a new DSS benefits system. Working in an SSADM/Prince environment using CASE tools such as Automate+ and Design/1.

1989 - 1991 HMSO, Norwich

Senior Programmer on a major project to transfer this government agency's accounting systems from a George 3 to a ICL VME TPMS/IDMSX environment.

1988 - 1989 Girobank plc, Liverpool

Analyst/Programmer on Girobank's DIALOG home banking project, linking PC-based telecommunications software to the bank's IBM3090/Tandem VLX network.

1987 -1988 Software Sciences Ltd., Macclesfield (permanent)

Involved in a number of projects including development of a Tandem-based securities trading product (T-COLT), a PC-based EFTPOS system for Scottish and Newcastle breweries and an ICL 3900 development for the Property Services Agency in Hastings.