

# Martin Gill

## Curriculum Vitae

February 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 in the past for many leading private and public sector organisations in roles ranging over the full development life cycle, including project management, analysis and design, implementation, testing and roll out.

More recently however I've focused on smaller scale consultancy and development work with particular emphasis on server-side coding and management, mostly in Linux environments (Red Hat/Centos, Debian/Ubuntu).

I am familiar with a wide 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 but most recently have focused on PHP (for web development) and C++/C# (for standalone applications).

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, Sybase, MySQL/MariaDB and SQL Server.

Personal Details

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		<b>Nationality</b>	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.

**Training** ISEB Certificates of Proficiency in SSADM Versions 3 and 4 (Weavers).  
Further formal training provided by ICL, Tandem and Thorn EMI.

Summary of Computing Experience

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

**Applications** Retail finance. Debit/credit cards. Direct loans. Credit scoring. Investment fund management. GIS. Public sector.

**Methods** 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, Progress, PostgreSQL.

**Languages** C/C++/Visual C++, C#, Java, JSP, Visual Basic, SQL, PL/SQL, Pro\*C, Perl, PHP, HTML/CSS/Javascript/jQuery, Unix shell scripting, COBOL, Lisp.

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

(2012 – present) Foodservice Solutions Network Ltd.

Ongoing 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 (CoFID), 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.

The system has been live for some time but I am retained on a consultancy basis for remote support and changes as they arise, e.g. to comply with relevant EU directives.

(2001 - present)	Server Management/Software Development
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Since 2001 I have focused mainly on short term consultancy and project-based development work rather than taking long full time contracts. Some of the more major projects are listed in separate sections below, but other smaller works have included:-

Radiowaves Schools Ltd. (educational resources - Apache/Tomcat, AWS, RADIUS)  
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
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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
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Software Developer for TEAMS: a field survey and asset management tool originally developed for Taylor Woodrow Construction Ltd. but later subject to a management buyout. 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.

The project won a won a 1995 BCS awards medal.

(1999 –2002)	Post Office/Royal Mail plc, Chesterfield
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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
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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
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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
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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*

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.