

My Skills

- Extensive development experience of applications such as risk management, point of sale/retail, financial management/reporting, CMS, CRM, billing, document storage and help desk systems.
- Complete use of various programming languages and databases in full-lifecycle task solving and product creation environments.
- Deep knowledge of fundamental protocols and API's spanning many platforms.
- Administration, monitoring and troubleshooting of large heterogeneous networks. Windows/Linux/Cisco, etc.
- Soft skills such as customer liaison, technical sales, winning tenders and requirements analysis, prioritisation and interpretation.
- Detailed planning and execution of long term business change strategies.
- Highly adaptive to current needs.

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Full UK driving license
MSDN Enterprise Licence

CV Version 6

Overview of Experience of Systems

Development Languages:

- C# - Winforms/ADO.net/Linq/EF and ASP.Net/MVC/WCF (Windows Communication Framework) for web services, web applications and desktop enterprise development. Some WPF (Windows Presentation Foundation) development.
- SQL and T-SQL using MS-SQL Server 2000-2016 and MySQL. Experience coping with concurrency and scalability (replication enabled software).
- C++ - Low level native programs/drivers without complex UI, with .NET interoperability (C++ CLI).
- XML, writing XSLT's and XSD's.
- Can at least read and fix: Java*, Delphi*, VB/VB.NET*, PHP*, Python, Flash Actionscript (*-Indicates I can build new things in these)

Important Software Technologies:

- Microsoft .NET Framework (Desktop v1 to v4.6 and Compact Framework v1 to v3.5)
- Various mark-up languages (HTML5, XML, XAML, CSS, etc.)
- Scripting languages/jQuery/AJAX, reactive frameworks (AngularJS, KnockoutJS, etc.)

Misc. Technology:

- GIT/TFS/Mercurial/Subversion version control
- Microsoft Active Directory/LDAP/Radius servers
- SharePoint V3-2016
- Dynamics CRM/XRM and a little NAV
- Hypervisors - Hyper-V/VMWare

Database Servers:

- Microsoft SQL Server 2000-2016, including MS Reporting Services
- MySQL (historical),
- Various NOSQL db's

Web/Proxy Servers:

- Microsoft IIS 5-10
- Apache 1.3-2.2/NGINX/Squid

DNS Servers:

- Microsoft DNS Server/Bind 8, 9

Operating Systems:

- Windows (Desktop and Server) from NT 4 through Windows 10 (2016 server). Windows CE 4-6
- Linux (Debian, Ubuntu, Red Hat, SuSE)
- FreeBSD (v9-11)

Networking Technologies:

- Most things, from Ethernet (10/100/1000 over copper and fiber into switches/hubs/machines/routers) and Wireless (b/g/a/n/ac) through to forwarding protocols.
- Cisco/Mikrotik/Nortel/HP routers and switches to route public and private networks. Understand VLAN's/VRF's.
- Firewall configuration, management and troubleshooting. VPN's.
- Experience using BGP and RIPng/RIPv2
- Power over Ethernet (48V IEEE 802.3af)
- SDN's as deployed by Microsoft Azure and Amazon.

RFID/Mifare (ISO 15693 and ISO 14443A and B)

Whilst at EasyTrace I gained extensive knowledge of working with RFID and ISO 14443A and B proximity technologies. Although primarily limited to the 13.56 MHz technologies (such as Philips Mifare) the knowledge expands to general radio frequency knowledge and 125 KHz RFID technologies. I can talk to Oyster card or your credit card basically.

Interests

I'm interested in networking, troubleshooting and primarily focus on software development and software architecture; I have strived to increase my knowledge and abilities in the fields of software development as rapidly as possible.

I'm also amused by electronics and am not scared of getting an electrical meter or oscilloscope out to work out what's going on if needed. I try to keep my skill set ahead of what is needed at my job and try to have a basic understanding of everything from Direct3D to SOAP to embedded development (i.e. – Windows CE/Windows Embedded/.NET compact framework/.NET Micro Framework) so that should I need to specialize in an area I can quickly adjust to it. I've even played with writing and debugging software for ARM microprocessors directly.

Although I have a specific interest in Internet technologies like IPv6 I also have great enjoyment from solving a problem – the harder the better. The problem can be in any area, from network admin or hardware troubleshooting to how to do a particular process in a business. I also like gadgets and their practical use in an environment.

Employment History

AA DriveTech (UK) Ltd, Basingstoke, Hampshire April 2010 – On-going

Driver Training and Risk Management division of The AA

Contract Software Developer

- Developed FleetRiskManager, a public facing ASP.NET MVC 5/jQuery/Knockout and SQL Server 2014 risk assessment and e-learning tool for corporate driver training, driving licence compliance validation, risk reduction and fleet management supporting 500,000+ recurring users. Implemented standards compliant functionality like SCORM 1.2 and 2004 (E-learning support) support to the platform. Implemented SSO support (both an IDP and RP) using SAML2 and Windows Identity Foundation (WS-FED).
- Introduced source control, build and release management to the all server environments using TFS, moving the business from manual releases to full automation and continuous integration
- Responsible for technical tender responses resulting in wins of new business in both the corporate and public sector business (Examples: Waitrose, BBC, Thames Valley Police Seatbelt Contract, etc.)
- Acted as technical contact point for customers requesting new functionality and had direct relationships with major resellers providing business analysis, bespoke development and immediate issue resolution
- Provided training in various patterns and practices for other developers in the business and acted as a trouble-shooter and third line of support
- Developed and implemented Dynamics CRM 2011 workflow actions and trained other developers in their use and implementation.
- Designed and built service bus and identity federation platforms.
- (For The AA) Influenced infrastructure decisions and resolved group-wide technical issues (IE – member of PKI working group, assisted with network fault fixing when major outages occurred)
- (For AA PLC) Acted as a trouble-shooter of last resort to ensure the resolution of problems in Java code and deployed infrastructure with a new outsourced membership management system deployment responsible for all SAP interfacing membership sales. Co-ordinated all technical knowledge and pushed the involved teams to completion once involved.
- (For AA PLC) Responsible for providing planning, scoping, initial budget estimates, writing job descriptions, due diligence answers for auditors, detailed planning of a complete separate IT solution and implementation of consolidation of a subsidiary business from three sites to one site for strategic purposes in line with management objectives prior to consultants being bought in to action management changes at the highest level. Subsequently involved in technical migration to the new IT solution along with an infrastructure lead as part of the subsidiary.

Zorg Solutions Ltd, Basingstoke, Hampshire

December 2009 - April 2010

A run-book automation specialist and bespoke software development firm

Head of Software Development (Founder)

- Software developer and designer of Zorganiser, a run-book automation and orchestration system for business
- Set up all IT services and infrastructure for the company
- Operationally ran the business and managed staff, suppliers, HMRC and potential customers until venture funding was withdrawn due to the economic environment at the time.

AMI Education, Basingstoke, Hampshire

December 2009 – June 2010

A division of RM PLC encompassing what was EasyTrace

Technical Consultant (6 Month Contract, Remote)

- Provided technical expertise and consultancy to ease transition to a new development and support team in their new offices.
- Deployed EasyTrace system to Islington BSF to avoid significant penalty clause impact on RM PLC
- Provided hosting and services for operation of the Internet based infrastructure for the EasyTrace solution

EasyTrace, Basingstoke, Hampshire

July 2004 - December 2009

A division of RM PLC, providing smartcard and biometric based solutions for cashless and catering, access control, etc

Senior Software Developer

- Designed and worked to develop the EasyPrint product, a C++ and C# based solution to provide follow-me print services (document collection at the copier, auditing of copying and scanning at the copier). This involved developing an embedded print console device that ran card readers and fingerprint readers using Windows Embedded to support copiers we could not run an interface on directly. I also managed third party development contractors who developed the user interface (Java) that ran inside certain Ricoh copiers, and a contractor who worked on the original C++ components to interface with the Windows print queue. I then subsequently took over direct maintenance of all but the Java code.
- Developed the EasyTrace SIF agent, a service complying with the Schools Interoperability Framework, a government originated standard for automated XML data exchange in schools (it creates and updates people automatically in the EasyTrace system when they were added to the schools MIS package).
- Authored automated integration processes on numerous links to third party systems, such as building management or access control systems, third party card production systems, library management systems, e-commerce payment systems and data consolidation packages like Microsoft CRM. This involved various communications technologies from SOAP/XML Webservices, through simple CSV data to Remoting.
- Sole architect/developer of Cashless Backoffice, a multithreaded and high performance cashless catering management system with Crystal Reports/Microsoft Reporting Services reporting system that has scaled between 1 and 9000 customers (tested to handle over 30,000 customers). This application was a plug-in host and used to manage and host UI's for a lot of the subsequent developments by other developers but core functionality was all authored by me.
- Sole developer of EasyPOS, a touch screen point of service terminal with features such as support for RFID/Mifare/Biometrics (fingerprint) and hardware auto detection. C# Winforms/SQL
- Sole architect/developer (and web host) of EasyTrace Online Services, a SOAP web service based service for licensing, error reporting, automatic update, electronic ordering (not payment) and report deployment.
- Architect and developer on the EasyTrace Access Control, an ACL based physical access control system. I designed the entire software side of the system and implemented the underlying technology such as the rules/scheduling engine and services to abstract out talking to the three types of hardware in use (proximity and two magnetic stripe based systems). I also managed a contractor who developed the front end on top of my business libraries whilst I was doing this.
- Designed, worked with a team for the development, and then maintained EasyTrace Suite Service, a high performance, linear scalability, low overhead service for running physical equipment over TCP/IP (devices like ATM's called account loaders but that receive cash payment and devices that charge for photocopies). I also had to fix/help fix the firmware of the account loaders in a few situations where they were misbehaving (PIC assembly code).
- Managed all testing, versioning, patching and deployment of all new EasyTrace software and the underlying MS SQL databases using end user/automated patching/installs rather than engineer driven installs and updates. This was heavily client facing and involved troubleshooting issues if engineers did not yet know how to troubleshoot something. I also provided training to engineering teams to allow them to handle support tasks.
- Project managed the technical aspects of implementation of ICT in a green field site new build at Great Dunmow Primary School, Essex (small, 300 pupils). This included all design, procurement and configuration with subcontractors doing the physical install. The school was subsequently used as an example for implementation in Essex by the government as it came in under budget and beyond original specification.
- Sole developer on EasyHelpdesk, an internally used Winforms and MS SQL based helpdesk package with web service interface for extensibility and remote working – conforming to ISO 9001 Quality Management.

Residential Parking Solutions Ltd

May 2006

A start-up in the facilities management sector I provided development for

Software Developer

- Designed and implemented an enterprise smart client (C# Winforms) for tracking owners, cars and permits. It also enabled printing bar-coded permits.
- Implemented (to a UI design by a non-developer) a compact framework application for a Symbol PDA to scan permits through a car windshield and connect over GPRS to automatically initiate processes on the server depending on whether the permit was allowed.

Imagination, Camberley, Surrey

June 2004/April 2007

Web and graphic design firm

Consultant

- Provided consulting regarding Implementation, Business Logic and Web Services to provide Java interoperability using XML Webservices (SOAP) with an existing PHP code base for a multi-platform, web and GUI based development centred on a point of sale and full management information system.
- Provided maintenance services for an existing ASP (Visual Basic) and MySQL based e-commerce site.
- (April 2007) Provided maintenance for an ASP.NET based questionnaire/training site.

M3i, Feltham, Middlesex

June 2004

New media specialists

Independent Developer

- Designed, built, implemented and hosted the "Seeboard Energy local business awards" site (ASP.NET and MS SQL). This included development of the database, back end, signup, nomination, voting, and administration system including the fully-fledged custom built content management system.

Collingwood College, Camberley, Surrey

January 2001 – June 2004

One of the UK's largest technology colleges

Senior ICT Technician

- Developed a dynamic, database driven PHP based helpdesk/asset management/contact management system to manage workload and provide extensive, integrated and referential reporting.
- Maintenance of the network, carrying out tasks varying from advanced troubleshooting and cabling to server reinstalls where necessary. Managed/installed equipment for the 2400 users; 600 PC's, 15 servers and 50 managed switches/routers with a changing team (for six months as the sole technician and purchaser for necessary equipment).
- Technical management of several software packages such as PARS, SIMS and Sage Line 100. This included learning and using SQL extensively whilst working with Capita to solve problems with SIMS.
- Planned for and finally migrated a Windows NT 4.0 based Domain system to Active Directory over a three day period with no effects on users; migrated the remaining Netware NDS tree to Active Directory a year later using Services for Netware and many manual techniques, again with no user visible downtime.
- Installed and managed services ranging from Apache/IIS to ISA Server (and Squid) and SQL Server.
- Implementation of a robust WINS/DNS/DHCP infrastructure with multiple points of service. Also implemented multi-homed internet access via routed BT and NTL leased lines.

KAMSolutions Ltd, London

August 2000

Web Design and Development Company

Independent Developer

- Built a Java based web game 'click-the-bucket'
- Made modifications to a database driven billing system and interface to a merchant account.

Education

Collingwood College Camberley, Surrey

1994-2001

- Nine, grade A*-C GCSE passes in all subjects including IT and Electronics.
- Computing and Physics A-Levels.

I am a certified IPv6 Sage, the highest level available (by Hurricane Electric, the main Tier 1 IPV6 transit provider).

I am considering an Open University course in Computer Science at some point in the future. I have access to Pluralsight and plenty of training material and reference books and will acquire more as needed in any topic.

References

Individual references by line managers are available on request. RM PLC HR and The AA PLC HR will be able to confirm employment.

AA PLC (Attn: HR Department)

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RM PLC (Attn: HR Department)

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