

44 Papillon Road
Colchester
Essex
CO3 3JG

Phone: +44 (0)1206 530571
Mobile: +44 (0)7798 656019
E-mail: richard@squarecows.com

Richard James Harvey

Personal Information

Nationality: British
Date of Birth: 18 January 1980
Place of Birth: Mansfield (Nottinghamshire)

Education

1998 - 2002 *University of Essex - Colchester.*

BSC Computer Science

Computer Science Robotics and Intelligent Machinery.

1996 - 1998 *High Pavement Sixth Form College - Nottingham.*

A-Levels

Physics, Design and Technology, Computing.

AS-Level

Electronics.

1991 - 1996 *The Manor School – Mansfield Woodhouse.*

GCSE 's

Information Technology, Design and Technology, Electronics, Double Science Award, English, English Literature, Mathematics, Geography, French, German.

Work experience

2010 (May) - ongoing *Specificmedia.*

Systems Administrator and Architect

Specificmedia is a marketing company who use a large scale map reduce cluster built on hadoop. I have been responsible for network design as well as systems build outs, load balancer and network configurations. I have also aided in trouble shooting existing systems. In the short time I have been here I have also implemented a nagios and cacti monitoring system for the three data centres.

2007 (Jan) - 2010 (May) *Ticketmaster.co.uk.*

Senior European Linux Systems Administrator (Core Systems)

At Ticketmaster I'm responsible for the core systems which includes databases, web servers with tomcat, proxy services, application servers and banking systems. Since joining Ticketmaster I've been working on a system to provide a new back end for MySQL which increases availability and lessens down time. This has been achieved by creating a set of management scripts which allow a MySQL instances to moved around a

pool of servers, this coupled together with MASTER → MASTER replication and Foundry/Netscaler Load Balancers has produced a system with high availability.

Most of my development work now revolves around Perl and Bash scripting however, this job requires flexibility to help debug various systems and languages for the developers. I've also gained new skills since joining Ticketmaster such as experience with Netapp Filers with fail over and snapmirror services. On the filers we use mainly use NFS but we also support CIFS and iSCSI.

A large part of my recent work has been to over see the virtualization projects. The company uses a mixture of VMware Server, VMware Infrastructure 3 and most recently added XEN Server. Each platform is used in different environments and XEN has recently started replacing VI3 for mission critical systems. One large part of the migration has been customizing our automated build system Spine-mgmt (similar to puppet) to work with this environment. Spine-mgmt is SVN system which applies overlays onto systems in order to configure them quickly and effectively. The main OS used by Ticketmaster is CentOS with some Redhat AS3/4/5 boxes.

This role has also allowed me to develop my skills in training the junior members of the team and organising projects and work loads.

2004 (Jan)-2007 (Jan) Cardiff Pinnacle Insurance.

Unix and Network Administrator (Innovations Department)

One area of my job entailed unix/linux administration. This involved day to day running of high availability clustered web servers based on Apache and PHP. Other systems included MySQL, Bind9 DNS, exim and postfix mail servers, as well as Radius servers to help manage our dialup connections and several monitoring systems including nagios / tripwire and logcheck servers.

Another responsibility was message systems. I was responsible for building an open source filter to sit in front of proprietary systems to create a dual layer of protection. This was achieved using Postfix, Amavisd-new, SpamAssassin along with Bitdefender and ClamAV, plus other anti-spam checks. A large part of the infrastructure was also ported to run on VMware ESX Server. Another of my roles included perimeter security and networks. This involved the maintenance of Nokia Checkpoint FW-1, IPTables and m0n0wall firewalls. The network was Cisco based and the majority was layer 2 networking, but some layer 3 routing was required for inter-building connectivity.

2003-2004 In-Sourced Ltd.

System and Network Administrator + Desktop Support

My role at In-Sourced involved the security of the network as well as the web/mail servers. This was achieved by using my Linux firewalling

Computing Experience

skills (IPTABLES). I was also responsible for the maintenance and patch management of the servers. We had five Linux servers, running a mixture of RedHat and Debian. I was responsible for the running of DNS(BIND), DHCP, Exim, Apache and Samba servers. We tightly integrated PHP and MySQL / Postgres support for the web servers. I was responsible for the migration of all Windows 2000 servers to Debian Linux servers and I also oversaw the migration from PHP4 to PHP5. The desktop support role involved general maintenance of Windows 2000/XP.

2002-2003 *Arena-ZME.*

System Administrator (Linux/Windows)

General systems administration for a a MRP system, in medical factory. This included network and desktop support.

2001 *Cobb Slatter.*

System Administrator (Linux/Windows)

1999-2001 *The Great English Pub Co.*

System Administrator (Linux/Windows)

Operating Systems: Linux (Debian/Ubuntu, Redhat, CentOS, SuSe and Gentoo), BSD (FreeBSD and OpenBSD), Windows NT/2000/XP/03/08, Nokia/CheckPoint IPSO, Mac OsX,

Virtualisation: Vmware (Server, ESX and ESi) , XEN Server, Xen (Open Source), KVM (Ubuntu Enterprise Cloud), Amazon EC2.

Automation Management: Puppet, spine-mgmt.

Mail Systems / MTA's: Sendmail, Exim 3/4, Postfix, Amavisd-new, SpamAssassin, courier POP and courier IMAP. Clearswift MimeSweeper / MailSweeper, IronPort mail guard and MS Exchange Server. Mail security using SSL/TLS. In-depth knowledge of SMTP.

Networks: Cisco IOS, Layer 2 and 3 (working with 2950/60 and 3550/3750), RIP and OSPF.

Network Services: BIND 8 and 9, DHCPd, Samba. I also have experience of service and network monitoring using technology such as rrdtool, mrtg, nagios and cacti.

Web Services: Apache 1.3.x and Apache 2.x, Microsoft IIS, also IRCd's and WAP portholes. I have experience with SSL enabled vhosts within Apache. I also have knowledge of squid proxies and mod_proxy.

Firewalls: Nokia/Checkpoint IPSO, mOnOwall (BSD based firewall), IPTABLES and IPCHAINS, Astaro Firewall.

Load Balancers: Foundry and NetScalers.

Databases: MySQL, PostgreSQL and Oracle.

NAS/SAN Technologies: NetAPP, OpenFiler, Equallogic, FreeNAS, iSCSI, NFS, etc.

Programming: Perl and bash scripting, Python, PHP4+5, HTML, XHTML, XML, RSS news feeds, JavaScript and Flash MX 2004. C/C++, Pascal, Java and 6502 machine code.

Office suites: The full Microsoft Office suites. OpenOffice including desktop support for this product. Google Docs/apps admin.

Hobbies

My love of technology helps me keep up with the latest advances which aids my ability to advise new ways of solving problems. I'm a big fan of open source technologies and try to give help and support back to the community whenever possible. I also play the guitar in my spare time, whilst not developing code for my dev website <http://dev.squarecows.com>

Volunteer experience

Systems design and implementation for non-profit organisations and charities.

Sports

I have a wide range of sporting interests. The sports I enjoy playing are hockey as a goalkeeper, 5 a side football and table tennis. One of my other sporting passions is Motor racing. I have also recently started playing squash.