

Charlie Harvey

Website: <http://charlieharvey.org.uk/>

Technical Overview

- Programming including Java, Perl, PHP, Bash scripting, DOS batch, C/C++, Ruby. (15 years professional experience)
- Networking - including TCP/IP, cabling, security, configuration. (15 years professional experience)
- W3C compliant (X)HTML, HTML5, CSS. XML, XSLT, javascript and all that jazz. (13 years professional experience)
- High quality application support and training. (14 years professional experience)
- Sysadmin and support of GNU/Linux (Debian, Ubuntu, Mandrake, RedHat) (13 years professional experience)
- Sysadmin and support of FreeBSD and OpenBSD systems (5 years professional experience)
- Desktop support of OSX machines (5 years professional experience)
- Admin and support for Windows (3.1, 95, 98, NT4, 2000, XPi, Vista, 7) (14 years professional experience)
- Project management experience and planning (12 years professional experience)
- Excellent time management and work prioritisation, including having been a company director for 5 years.
- Outstanding communication skills

Employment History

IT Director

New Internationalist, Oxford

2008–Present

Projects:

- FreeBSD, OpenBSD, Debian, server management- Managed complex, heterogenous international network of servers including various BSD boxes, Debian machines and VMs, OpenBSD firewalls and various embedded GNU/Linux file servers.
- Jointly responsible for all technical aspects of newint.org, a busy website powered by Bricolage CMS. Including template development, database management and so on. I implemented Varnish caching layer which significantly sped up the site. Also implemented lots of functionality including a powerful search facility built with Catalyst and Xapian.
- Website redesign- Worked with colleagues and Andy Clarke on a complete redesign of newint.org.
- Online shops- Migrated e-commerce infrastructure from ZenCart to Magento e-commerce system. Managed external contractors and contributed to code as well as managing LAMP infrastructure for multi-million pound e-commerce sites, New Internationalist Shop and Amnesty Shop. Responsible for all technical aspects from managing hosting arrangements to sysadmin to code development. Built custom scripts to facilitate stock and order transfer process to WebRelayXML based system.
- Friends of the Earth Shop- Designed, built, managed Friends of the Earth Shop, including developing mobile friendly templates and working closely with Friends of the Earth staff.
- Easier English Wiki- Set up mediawiki instance for New Internationalist's Easier English Wiki.
- CRM implementation- Initiated and worked on project to implement CiviCRM to integrate the various New Internationalist databases and "Friends" scheme.
- New Internationalist for iPad- Provided technical support for New Internationalist's implementation of a MagPlus iOS app.
- Tech support and customer service- Helped support and train colleagues.

Web Developer

Corporatewatch, London

2012–Present

Projects:

- Drupal mapping site build- Built a Drupal-based mapping site that allows users to see the physical location of corporate power, Mapping the Corporations. It was an interesting project to work on as we specifically wanted to avoid using corporate infrastructure (eg. Google maps) as much as possible.
- ad-hoc shop support- I occasionally help out with specific projects on CorporateWatch's shop.

Voluntary Web Strategist, Developer, Manager

East Oxford Community Association

2012–Present

Projects:

- Site management, migration to wordpress- I am a volunteer trustee at my local community centre, and helped them move their website, eastoxford.org to wordpress.com, which fitted their needs much better than their previous solution. I helped them to work on some basic SEO and trained a number of volunteers to use wordpress to keep the site updated as well as configuring the site.

Sysadmin

OX4

2010–Present

Projects:

- Web hosting, sysadmin- OX4 is a webhosting service for Oxford-based activists which I help run. We focus on providing extremely reliable and fairly secure web services including hosting for Drupal 6 and 7 sites.

IT Manager

People & Planet, Oxford

2002–2008

Projects:

- Server migration from Win32 to GNU/Linux- Built and maintained 3 GNU/Linux servers to provide mail, web, file, NAT, and firewall services, furthering knowledge of Apache, Samba, iptables, postfix, and cyrus-imapd.
- Intranet development- Wrote and maintained organizational intranet using perl, php, Java, css, MySQL and xml/xsl. Later migrated this to a Ruby on Rails application, using agile methodologies.
- Web administration and development- Built and administered Apache server for organizational website, this included administering DNS and Exim SMTP and developing MySQL driven RSS news feeds which integrated with existing php news pages.
- Image database- Wrote a fully featured Java/MySQL image database application.
- Spam filtering/antivirus email and webmail system- With support for 20 users, using postfix, clamav, spamassassin, squirrelmail, cyrus-imapd and self-written perl code.
- Automating system administration- With perl, php, ruby and bash scripts.
- Documentation- Including a comprehensive set of howtos, training materials and a full operations manual.
- Data entry management- Managed and trained data-entry staff and prioritized data entry workloads.
- Support and maintenance- For a network of 25 Windows 95/98/2000 boxes.
- High quality application and network support and training- For 25 users
- IT Project Management- Managed IT budget, developed and oversaw organizational IT strategy.
- Office management- Including telecomms support, health and safety management, and purchasing.

IT Systems Manager

The Hot Group London

1999–2002

Projects:

- System Administration- Of 3 NT4 servers, and assisting systems administration of GNU/Linux servers.
- Network management and user support and training- Of 35 Windows 98/2000 machines.
- Intranet development and maintenance- Of internal website and IIS webserver.
- Release Management- Including establishing and maintaining CVS repository.
- Facilitation of webserver relocations- Twice oversaw logistics of webserver moves, including assisting with setup.
- Java development- Coded various applets and applications, such as an automatic email from voicemail generator.
- Deploying and configuring servers- Built NT4 and GNU/Linux web/mail/file servers from scratch (including hardware).
- Mailserver management- Of Infinite Interchange mail/webmail server
- Purchasing supervision- Supervised all IT spending, licencing requirements and stock control. Extended departmental Access database to simplify the task.

Volunteer IT Consultant

Oxfam Development Education London

1999–2000

Projects:

- Database redesign- Redesigned several Access databases.
- Desktop support- For users of NT network.
- Assisting in organization of major conference- at the University of Hertfordshire.

Education

Coursera courses passed, 2013

Coursera

- Programming Languages (University of Washington);, Statistics One (Princeton).

Regular Expression Training Course, 2012

FLOSSUK/Damian Conway

- Understanding the Perl regex engine; Regexp::Debugger; Capturing, backreferences, interpolation; Smart matching; Substitution, alternative delimiters, optimisation; Advanced features: deferred subpatterns, named captures and named subpatterns; Regexp::Grammars.

Advanced Perl Techniques, 2011

FLOSSUK/Dave Cross/Magnum Solutions

- Perl 5.10, 5.12; Advanced Testing; Object Relational Mapping; Exception Handling; That's all folks; Benchmarking and Profiling; Moose; Catalyst; PSGI/Plack.

City and Guilds Level 3, 2003

Oxford College of Further Education

- C++ Programming (302).

City and Guilds Level 3 , 2001

Barnet College

- Java Programming (7261).

Developers Certificate, 1999

MicroTech Training Services, London

- HTML/JavaScript.

A-Levels, 1991

Colchester VIth Form College

- English Language & Literature (A), General Studies (A), History (B), Economics (C), Politics (C).

Seven GCSEs, including

- Maths (A), English (A).

Web technologies

- Dynamic websites using various backend databases - MySQL, postgresql and SQL Server.
- Reasonable knowledge of Drupal -- I run a voluntary Drupal hosting service and have worked on sites like Mapping the Corporations.
- Familiarity with a number of web frameworks including professional experience of Catalyst and Rails. I made SnippiOa pastebin site from an interesting Haskell framework called Yesod, an intranet using Rails, the interactive parts of newint.org out of Catalyst, the non-interactive parts with Bricolage/Mason, and rebuilt my own site charlieharvey.org.uk with Dancer not long ago.
- Webserver deployment, configuration and administration of Apache on FreeBSD, OpenBSD, Windows and GNU/Linux platforms.
- Perl, ruby, php, java, haskell development - whole product lifecycle and project management experience.
- Fluent, accessible and standards compliant (x)html, html5, css, xml, xslt, rss, JavaScript, Java Applets.
- Built and maintain online shops for New Internationalist, Friends of the Earth and Amnesty International UK. Configured and managed Magento e-commerce software, built custom modules, project managed software suppliers, created custom themes.
- Have a passing familiarity with node.js
- Experience with Less and Sass CSS preprocessors as well as with writing CSS by hand for large sites (eg newint.org 100-200k uniques/month).
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Programming experience

- Perl including familiarity with many CPAN modules. Highlights include web based budget management tool; multiple customized system administration utilities; organizational intranet making extensive use of CGI.pm and HTML::Template; websites using Catalyst and Dancer, sysadmin tools, etc.
- php including configuration of apache. Highlights include xml/xslt based meeting scheduler; RSS feed generator (<http://peopleandplanet.org/rss/news.xml>); various web tools.
- Ruby including Rails. Highlights include a version of CPAN's Lingua::EN::Fathom; Rails based organizational intranet with full CMS.
- Bash scripting. Highlights include various tools for Samba administration, task automation server monitoring and so on.
- DOS batch. Highlights include various system administration tools, login scripts.
- Other languages worked with include C, C++, Pascal, Ada, Assembler (NASM), Clojure, Haskell, ML, io, Scala, Common Lisp, Erlang, Prolog, Bash, Javascript, Scheme (I have written an implementation of Scheme) and dBase IV. Remember that?
- Version control using git, CVS and subversion including setting up repositories, branching, merging, svn+ssh, as well as having been responsible for release management at hotrecruit.
- Java including J2EE. Highlights include 10,000 line image database; voicemail to email converter for Argent Branch PBX.

Systems Administration experience

- DNS management using BIND on FreeBSD and Linux
- Database administration including managing multiple MySQL and postgresql servers. And nosql tools like redis and mongodb. I once even used to manage Microsoft SQL Server servers.
- Apache: Building from scratch; configuration; modules including mod_perl, mod_ruby, mod_fastcgi, mod_rewrite, etc; security; deployment.
- Email: installation, configuration and management of postfix, cyrus-imapd, squirrelmail, mercury, exim, clamav, spamassassin, amavis, Infinite InterChange, Roundcube, Horde, dovecot, etc..
- Windows 3.1 to 7: Administration, configuration, security, installation, troubleshooting, hatred.

Publications

- " Free Software as DIY culture". University of Gothenberg, Sweden.

Hobbies

- Community and campaigning groups
Including Local Indymedia and the Oxford Action Resource Centre (whose XHTML1.1 compliant website I built back in the day).
- Punk rock music.
- Anarchist politics and community organizing.
- Cider.

Professional Memberships

FLOSSUK

ACM

Free Software Foundation Europe

Open Rights Group

Industrial Workers of the World

References

Available upon request.

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