

Stephen

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Cope

A man who uses computers

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Ever since I first typed a program into the Aquarius, and wrote BASIC on the Commodore 64, I've known what it is like to be a first-time computer user.

Since then I have come into contact with many thousands of computer programs. Some I've enjoyed, others I've discarded, some I've improved, and those I can't improve I've written a tutorial for.

Current work ...

2003 - Present: Department of Statistics The University of Auckland

“Web Programmer”

Originally started with the job of keeping the website up to date, including programming the in-house content management system, and documenting jobs. Grew to include keeping the web server and mail server working, system monitoring, and system administration. Documentation has grown to include tutorials, seminars, and evangelism. Have located and hired three additional programmers for work on individual projects.

Work on the CensusAtSchool project includes web-based visualisation tools that work in with the sampler. Coded the survey, sampler, registration, and visualisation tools.

- > Web Programmer (PHP, HTML, CSS, Javascript { jQuery }, MySQL, vCalendar, ...)
- > Programmer (R, bash, Java, C, some minor perl and Python)
- > System Administrator:
 - > Linux (Fedora 10, CentOS 5.2 & 5.3, Redhat EL 3, 4 & 5)
 - > Sun Grid Engine [2007-]
 - > Condor [2009]
 - > Apache httpd
 - > LDAP
 - > Mailman (and as much python as that requires)
 - > Postfix
 - > SNMP (net-snmp) and MRTG monitoring
 - > Squid proxy
- > Managed certificate authority
- > Teaching Learning Technology Committee, Alternate for Faculty of Science [2008-]
- > Building 303 and 303S Fire Warden [2009-], Floor Warden [2003-2009]
- > First Aider [2009-]

Selected interests

Usability: There's no point having a thing you can't work. Sensible interfaces, that support both first-timers and experienced users. Attended **Usability Week Conference**, to hear Bruce Tognazzini. [2007] Design and testing of web applications.

High {Performance, Throughput} Computing: Attended **High Performance Research Symposium**. [2008] Maintain **Sun Grid Engine**. [2007-]

Web Application Security: How hard is it to validate all input into your application? Seriously! Also don't trust your users' input. And don't mix up trusted and untrusted data. And separate your code and data. Don't forget to ...

More interests not important enough for the first page ...

Cryptography:

Setup and maintain
Dept. Certificate
Authority.

Thawte Web of Trust
Notary [1999-]

User of GnuPG (PGP).
User of S/MIME.



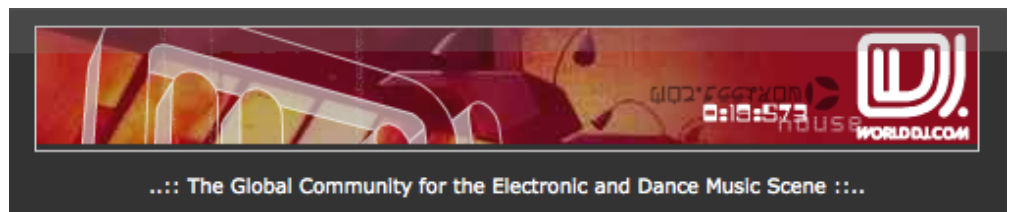
Standards: I know
email and the web.

HTML, XHTML
CSS
HTTP (RFC 2616)
SMTP (RFC 2821)
email (RFC 2822)
MIME (RFC 2045, 2046)
POP (RFC 1939)
DNS (RFC 1034)

2002: WorldDJ.com / Gorilla Technologies

Worked with Paul Spain and a graphic designer to build from the ground up a website completely personalised around your musical tastes and current location. Includes registration system, logins, secure content management with multiple levels of access, message boards, and content targeting. Grew team to have two programmers who developed the advertising system. Did user testing and worked usability improvements into design.

- > Lead Programmer and Lead Designer (HTML, PHP, Javascript, CSS, Microsoft SQL)
- > Assistant Graphic Designer
- > Consultant
- > System Administrator:
 - > Microsoft Internet Information Server (IIS)
 - > Microsoft SQL Server
 - > OpenBSD (Squid reverse web proxy, outgoing mail server)
- > Visual Basic (for a Gorilla Technologies side project)



2001: NetBases

On the strength of a chat room I wrote entirely in HTML with a single line of Javascript, NetBases hired me as a PHP programmer.

One tool I wrote for use by clients was a self-service debugging tool for finding out information on WHOIS, hosting, and DNS nameserver setup for a given domain name. Imagine a neophyte-friendly version of DNS Bajaj, then make it pretty.

- > Web Developer (HTML, PHP, PostgreSQL)
- > DNS

2000: Carey College

Worked on a team to create the school's website. Using my self-taught knowledge of web development I lead the way into creating a content management system for school notices and articles.

- > Web Developer (HTML, PHP, MySQL)

Edumacation ...

In a lull after the dot com bubble burst I attended Spherion Education to study "**Advanced Diploma in Object Orientated Programming**". Received **Award of Excellence** for "outstanding achievements"

- > Programming (C, C++, Java)