

# Josh Harle

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## PERSONAL INTRODUCTION

Over the past eight years I have been working on a variety of freelance projects which require both project management and project design skills.

During a recent team project, I successfully initiated use of version control systems, backup policy, and bug / issue tracking between collaborators.

Keeping abreast of new technologies is essential, and I am confident in adopting the latest innovations, including open-source projects, where it will benefit; continuing to acquire new skills and knowledge.

I have recently been working on the cutting edge of distributed Cloud computing using Amazon Web Services. I have current experience of both the latest PHP revision, and new additions to ASP.NET 3.5.

## EDUCATION

**Bachelor of Arts / Fine Arts (Double Degree)**  
**University of New South Wales, Australia**

2003 – 2007

Achievement

- Graduated having achieved a consistent **distinction** and **credit** grade for all subjects.

Building upon previous study, and having pursued Electronic Engineering studies, I developed real-time systems at a number of levels, from PIC chip assembly language to C, VB.Net and Java, coupled with self-designed circuits. These systems formed the basis of a number of interactive installation pieces. During this period I also implemented parallel processing code and a Beowulf cluster for biomedical arterial pressure model simulation to support a friend's Masters thesis.

**Bachelor of Computer Science (Honours)**  
**University of Reading, England**

1999 – 2003

Areas of study include

- Database & Information Systems Design
- Design Methodologies
- Electronic Commerce
- Object Orientated Design and Programming

Many of the courses required extensive self-study, helping me to quickly learn new languages/systems through life.

## PREVIOUS EXPERIENCE

*References available on request*

### Lead Developer

March 2008 – August 2008

*Zaptag, Buckinghamshire, UK*

Managing three remote developers through the implementation of a SVN version control system, and Trac project management tools, and the PMBOK approach to handling risks and project expectations.

Researching and developing a scalable web programming platform using Amazon Web Services (Elastic Cloud Computing, SDB, SQS, S3, reverse proxying, caching using Memcached) and PHP 5.

Migration of codebase to ASP.NET 3.5 platform, utilizing MVC .NET extension. Design and implementation of security (ASP.NET best-practices), web services (using WCF), database schema, and syncing process for a Web App/Windows App pair. Create bespoke DLLs for data handling and processing. See <https://online.zaptag.com>

### Web Application Consultant

2006 – Present

*Fishvision, Sydney*

Working remotely for a IT solution provider based in Sydney, Australia. Developed e-commerce sites, and web-based business infrastructures using OOP and MVC PHP(CakePHP), MySQL, AJAX, and JQuery. Designed and implemented bespoke CMSs, as well as extensive customization of Joomla. Researched and developed system through communication with outside clients, defined specifications, designed using UML, and implemented. See <http://www.openhomeonline.com.au> (amongst others)

### Web Consultant

2000 – Present

*S & PM Signs, Reading, England*

See <http://www.spmsigns.com> - This required detailed information gathering to fit the requirements of the database to the original working practices. The project involved creating a bespoke online ordering system and associated security features, etc. (PHP, MySQL, DHTML, JavaScript)

Creating an online catalogue and ordering system that implemented support for web browsers and WAP devices such as mobile phones. Used XSLT translations of XML page information, into HTML – JavaScript - CSS and WML - WMLScript. Implementing an XML-RPC server in PHP.

**More recently:** Implementing an e-commerce site, using popular CMS package Joomla, to enable full product catalogue browsing, and instant online credit card purchases. Work done on SQL to import expansive legacy database from proprietary format into usable data. PHP programming of credit card gateway and implementation of best-practices security model. Development of several Joomla 1.0.x and 1.5 compatible extensions. See <http://www.signsgraphicsuk.com>

### Web Application Consultant

2005 – 2006

Designing and implementing a Java applet-based online image editor with PNG/JPG/GIF support and mechanism for uploading to the server gallery. Custom written PHP (+ MySQL) server widget .

See <http://www.theomnipotent.org/>

### IT Contractor

2004 – 2005

*European Patent Office, The Netherlands*

Developing a flexible replacement for the Crystal Reports-based report system within EPOScan. VB.net based; XML definable SQL queries to various database products, queries converted into XML, transformed into XML and converted into PDF via FOP and report templates. Report graphics implemented using Scalable Vector Graphics (SVG). Created template-based JavaDoc to MS Word format transformer, among other XML, XSLT, XPath applications.

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### KEY SKILLS

Area	Skills & Length of Commercial experience	Skill Level
<b>Languages</b>	C#, Visual Basic in ASP.NET, LINQ to SQL – 5 years SQL, PHP 5, PERL – 8 years AJAX, JQuery – 3 year XML, XSLT, DTDs, Schemas, XML-RPC, WSDL – 4 years Java, J2EE: JSP, Servlets, JDBC, (limited experience XDoclet) – 4 years C++ - 3 years Pascal, Basic (various) - 6 years (X+D)HTML, JavaScript, HTML - 9 years	Strong Strong Strong Strong Intermediate Intermediate Strong Strong
<b>Design Schemas</b>	Test Driven Development (TDD) JUnit – 4 years Model/Control/View schema (CakePHP, Kohana, ASP.NET) – 3 years Cloud Computing (Redundant/Mutable/Scalable distributed systems implemented using Amazon Web Services – SDB, S3, SQS, EC2) – 1 year Caching and performance optimization (using Memcached and Pound reverse proxy) – 1 year	Strong Strong Strong Intermediate
<b>Software</b>		
<i>Development</i>	Eclipse - 4 year MS Visual Studio 2008, SQL Management Studio – 5 years	Strong Strong
<i>Database</i>	Access - 2 years MaxDB/Firebird/SQLite - 1 year MySQL 5 – 8 years SQL Server 2008 – 2 years	Intermediate Intermediate Strong Strong
<i>Web Design Tools</i>	MS FrontPage - 3 years Dreamweaver - 5 years	Intermediate Strong
<i>Graphics Packages</i>	Photoshop, Illustrator, Paintshop Pro - 8 year	Strong
<i>Document Tools</i>	Acrobat, Xerox Docutech software – 1 year	Strong
<i>Multimedia</i>	Flash, Fireworks - 5 year	Intermediate/Strong
<i>MS Office</i>	Word, Excel – 10 years PowerPoint, Outlook - 7 years	Strong Strong
<i>Internet Servers</i>	Apache Web Server, Apache Tomcat + Microsoft IIS (7) - 5 years	Strong
<i>Versioning</i>	CSV – 1 year Subversion – 4 years	Intermediate Strong
<i>Content Management</i>	Joomla! 1.0.x, Joomla! 1.5, Mambo – 3 years	Strong
<i>Issue tracking</i>	Bugzilla, Mantis, Trac – 1 year	Strong
<b>Database Design</b>	Design, Testing and Implementation, Query and Report Design - 5 year	Strong
<b>Operating Systems</b>	MS DOS, MS Windows/98/NT/XP/Vista based systems - 10 years Unix, Linux based systems- 5 year	Strong Intermediate