Simon Wade

Solution Architect / Tech Lead

Languages	Java, JavaScript/CoffeeScript, Scala, Ruby, PHP, CSS, BASH, Perl, XSLT
Databases	MySQL, PostgreSQL, CouchDB, Redis, MongoDB, SQL Server
Application servers	Node.js, WebSphere, JBoss, Tomcat, PHP, Symphony, CakePHP
Backend	Ruby on Rails, Node.js, Express, GWT, Puppet
Front-end	Ember.js, AngularJS, Backbone, Grunt, Yeoman, jQuery, HTML/HAML/JADE, CSS/SASS/LESS/Stylus, localStorage, IndexedDB
Editors	Sublime, Eclipse, Vim, Photoshop, WebStorm
Lifecycle management	Agile et al., Git, Subversion, JIRA, Grasshopper, Trello, Unfuddle
Architecture	SOA, REST, Model-Driven Architecture
Methods	XP, Scrum, Test-Driven Development, Behaviour-Driven Development, Domain-Driven Development

Executive Summary

- Experienced architect and tech lead with 4 years experience running software development teams
- I have a passion for good software architecture, design and development
- Passionate about agile software development, good communication and team dynamics
- I am a gun/top-tier Java, Javascript/CoffeeScript, PHP and Ruby developer
- Expert in Node.js, Ember.js, AngularJS and all things HTML, CSS/SASS, XML, AJAX
- Passionate about open source, and the benefits for companies of being a contributor

I am a highly skilled architect/tech lead with extensive commercial experience, mostly specialising in a wide range of online technologies. My experience has included extensive solution architecture and team leadership, on a wide variety of projects including large distributed systems development, single-page app development, leading-edge web development, streaming video and development for set-top-boxes.

I have a strong understanding of agile development methodologies, and enjoy working in a dynamic and motivated team with the opportunity to grow and acquire new skills. I relish a challenge and thrive in situations where the team must strive for excellence.

I am passionate about open source, software architecture and design. I have run my own business with a team of 4-5 developers for 4 years, serving as architect and tech lead in this role and previous work experience. I enjoy liaising with clients and stakeholders at both the business and technical levels. I have found that my ability to provide a technical viewpoint in easily understood language has proven to be invaluable.

I have a great deal of experience with data and system analysis and design as well as business analysis for system architecture design. I also have experience with business requirements analysis and technical writing for proposals, functional and technical specifications and system specifications documents.

The following is a brief summary of my main areas of technical knowledge.

- Excellent client-facing, communication and leadership skills
- I am a passionate 'small-A' agile SDLC evangelist
- Object-oriented software design, as well as a big advocate of using Aspect-Oriented and Event-Oriented approaches where appropriate
- Extensive experience with writing technical specs, executive proposals and scoping documents
- Experience with formal Software Requirements Specification
- Multi-threaded application design and development
- Experience with many internet technologies
- Strong team leadership skills, relish a challenge and enjoy delivering under pressure

What I'm looking for:

- A challenging environment that allows me to develop my skills and grow
- Work in an team of 'A players' on world-beating tech
- Be part of a well-oiled machine that ships quality code and is all over its with dev ops
- The ability to contribute to open source in the pursuit of my work is a big plus
- I really value good personal relationships with the people that I work with

Project Highlights

Architect, Tech Lead - EA Auctions *- Completed 2013*
Node.js, JavaScript/CoffeeScript, Ember.js, Ruby on Rails, SASS, Redis
http://www.eaauctions.com.au/

The EA Auctions website is a single-page app developed in Ember.js with a Node.js backend that uses a Redis server to provide JSON data and the real-time functionality. The site provides an online auction platform that allows users to bid against each other in real-time, as well as providing 'simulcast auction' functionality in which an audio stream of the auctioneer is broadcast to online bidders, who can bid against floor bidders in the auction room in real-time.

The site is fully responsive and has layout variations for desktop, tablet and phone. Try resizing your browser window to see this in action.

This is the 2.0 version of an online auction platform that was originally developed in 2008. The original site was developed using a PHP framework written by me called IrisPHP. The new site uses the existing back-end and admin functionality written in PHP, and uses Redis, Node.js, Socket.io and Ember.js to deliver an industry-leading realtime auction experience to both desktop and mobile clients.

The Stack

- MySQL database and PHP admin back-end
- Redis for JSON and real-time 'pub-sub'
- CoffeeScript and SASS rendered using Rails asset pipeline
- Node.js provides the RESTful API and websocket server for the client app
- Ember.js is used for the whole front end client app, and Socket.io for real-time communication
- PhantomJS to create the HTML for SEO
- Nginx web server

Software Consultant - Mediaflux - *Arcitecta (6 month contract - 2013)*
Java, GWT, HTML, CSS

Arcitecta specialises in data management systems for large-scale distributed data. Their core product *Mediaflux* is an operating system that enables distributed groups of technical and non-technical people to share, manipulate and manage very large datasets of information. In particular Arcitecta specialise in geospatial data management and mapping applications (think Google Maps on steroids).

Arcitecta have some really quite amazing technology written in Java that provides a desktop environment that runs in the browser (they use GWT to compile the front-end Java code to Javascript). My time at Arcitecta saw a significant contribution to many different areas of the codebase, including the following.

• Added a new **'Search Layers' capability** to the existing *Asset Map* application in Mediaflux Desktop. This new functionality provides the ability for users to perform queries on very large datasets (multiple TBs) of metadata based on the geospatial shape of assets (e.g country borders, mapping information, the outline of facilities, planned routes etc).
• Developed a **pure-Java Styling API** that provides similar capabilities to SASS, but using a pure-Java API. This allowed us to achieve separation of presentation and structure/content in the widget-based environment of GWT, and to avoid using inline styles to control visual presentation.
• Introduced a **Futures-based asynchronous programming** model, to replace the traditional callback/listener-based model used throughout the codebase.
• Introduced a **generic EventEmitter approach to simplify Event Oriented Programming** in Java, to replace the traditional listener-based model used throughout the codebase.
• Created a **document authoring solution** inside the Mediaflux Desktop environment (think Google Docs). This was implemented entirely in Java GWT, without using any of the many existing JavaScript libraries.
• Developed a **general-purpose asset management system** called *Workspaces* that provides workflows for the creation, management and export of assets. This was developed to provide a task management solution for DIGO (Defence Imagery and Geospatial Organisation), but also provides a foundational application within the Mediaflux Desktop that can be used for a wide vast array of different uses.

Open Source

I like to keep my modules small and focus on doing one thing well.

• Tabcordion transforms Bootstrap tabs to an accordion and vice versa
• jquery-bonsai (featuring jquery-qubit and jquery-json-list) is a super lightweight jQuery tree plugin with checkboxes and more
• ember-orchestrate.io is an Ember Data adapter for Orchestrate.io
• ember-debug is a collection of useful Ember.js debugging functions
• ember-todomvc and robot-test are solutions to coding tests in 2013
• jquery-equal-height is a simple jQuery plugin that makes DOM elements have the same height
• switch-image.js switches images in response to events, such as hover (mouseover and mouseout), with support for animated transitions
• ajax-inputs.js is a general-purpose solution to submit changes to form inputs using AJAX

- [list-filter.js](#) filter a list of items based on an input field.
- [form-unload.js](#) - check that forms have been submitted before the user leaves the page
- [git-tools](#) - useful Git scripts, including scripts to automate common git-flow workflows

Work History

Software Consultant/Developer - *Arcitecta (1st Feb 2013 - 18th July 2013)*
Java, GWT, HTML, CSS

Arcitecta specialises in data management systems for large-scale distributed data. Their core product *Mediaflux* is an operating system that enables distributed groups of technical and non-technical people to share, manipulate and manage very large datasets of information. In particular Arcitecta specialise in geospatial data management and mapping applications (think Google Maps on steroids).

Arcitecta have some really quite amazing SOA technology written in Java that provides a desktop environment for big data that runs in the browser (they use GWT to compile the front-end Java code to Javascript). My time at Arcitecta saw a significant contribution to many different areas of the codebase.

Architect, Tech Lead - *Dimension27 (1st Feb 2008 – 20th December 2012)*
PHP, JavaScript, Dev Ops, Bash, Apache, MySQL

Dimension27 was a software development company owned by me that provided consultancy and development services to a number of clients including [BASF Australia](#), Health Super (now [First State Super](#)) and [QBE Insurance](#). Dimension27 was acquired by [BJM Design](#) in October of 2012.

Notable Projects

- [www.eaauctions.com.au](#) - Ember.js, Node.js, Redis, Rails, SASS, legacy backend in PHP
- The following sites were developed for BASF Australia over several years. All of which are all run off a single content management system installation using [SilverStripe](#):
[www.agro.basf.com.au](#)
[www.sharpen.agro.basf.com.au](#)
[www.pestcontrol.basf.com.au](#)
[www.termidor.com.au](#)
[refinish.basf.com.au](#)
- During the first years of this period I developed a software development framework called IrisPHP, which was used for the v2 iteration of the EA Auctions website, among others.
- And many, many more projects.

Architect, Tech Lead, Consultant *- Inlink International (1st May 2003 – 26th August 2013)*
PHP, XML, Perl, Bash, Apache, MySQL, Dev Ops

I was initially contracted by Inlink to develop the Software Requirements Specification document, and then to write the software for delivering content to media screens in elevators. These screens are used around Australia for the display of digital media (e.g. advertisements and film-trailers) and other content (e.g. weather, news, floor information and building messages).

The initial release of the project was completed in three months of intensive development, which was followed by further development over the intervening 10+ years.

The system has now grown to a very large distributed system based on a scalable architecture, continuously distributing content to over 1,600 client machines in 700 locations around Australia.

Architect, Tech Lead - *Sprout Consulting (March 2007 - January 2008)*
PHP, JavaScript

Architect - *Oliver Roydhouse (January 2007)*
Software Requirements Specification

Architect, Tech Lead - *TomatoSource (July 2006 - December 2006)*
PHP, JSP, CSS, Perl, Bash, Apache, MySQL

Analyst Programmer - *SitePoint (June 2006 - July 2006)*
PHP, MySQL

Architect, Tech Lead - *Inlink International (June 2005 - November 2005)*
Java, Java RMI, SWT, DCOM, PostgreSQL

Architect, Tech Lead - *HoteLinx Digital VoD System (October 2003 - February 2004)*
PHP, XML, RSP, RTSP, Set-top box technology

Analyst Programmer - *Empowered Communications (May 2003 - October 2004)*
PHP, Perl

Analyst Programmer - *Mailtrack (November 2002 - April 2003)*
Java, PHP, Perl

Senior Technical Consultant - *Swish Group (January 2001 - February 2002)*
Java, J2EE, PHP, JavaScript, Perl

Consultant/Web Developer - *ePresence (July 2000 - December 2000)*
PHP, Perl

Analyst Programmer - *Inquit Communications (March 1999 - July 2000)*
PHP, Perl

Education

Bachelor of Multimedia Technology/Multimedia Software Development
Swinburne University of Technology

I achieved a distinction average in my four years of software development study and in graphic design for multimedia subjects.

Victorian Certificate of Education
Box Hill Institute of TAFE, 1995/96

Personal Interests

Music (I play guitar and keyboards in [a post-rock band](#)), science (I'm an avid polyglot, and devour New Scientist weekly), literature, listening to podcasts (mostly science and programming), yoga (my partner runs an [Ashtanga yoga studio](#)), meditation, going to the gym and cycling.

Most of all, I love spending time with my family and two kids.

References

References provided on request.