

# Simon Ward

Web developer on the LAMP stack, specialising in eLearning applications development, and plugin and theme development for WordPress.

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View my project portfolio at <http://sjward.org/projects/>

## Skills Experience:

Back end web development, PHP, MySQL.	7 years
Front end web development, Javascript, HTML, CSS.	10 years
WordPress API, plugin and theme development.	7 years
eLearning systems / tools development.	5 Years

## Recent Work:

### Imperial College London March 2018 - October 2018

**Summary:** Component delivery for LMS

**Project Details:** Performed a variety of development tasks for the Learning Technology team during the creation of a new LMS for the School of Medicine.

Developed the core REST based API that allows automation of yearly sign-off processes, and provides students with more meaningful submissions information on their dashboard.

Created the browser based PDF utility that allows students to download course notes from the network, complete with the student's own notes integrated into their document.

Delivered UI for the student dashboard, and supported the front end developers writing Javascript snippets, including Canvas graphing tools.

**Technologies used:** PHP, Javascript, REST, WordPress.

### University of Manchester September 2018 - January 2019

**Summary:** CAS integration and user status / permissions handling

**Project Details:** Developed modules to handle user permissions and system roles / capabilities on a number of heavily customised WordPress installs that authenticate users via the University Central Authentication Service.

**Technologies used:** PHP

### University of Southampton February 2017 - May 2017

**Summary:** Voice Administered Questionnaire System

**Project Details:** This application was delivered to the School of Psychology to allow them to conduct patient quality of life assessments in-the-field at Southampton General Hospital.

- Delivered a browser-based system that supports multiple languages.
- Created Interactive animations, context specific audio and sound effects.
- Leveraged native browser technologies such as Canvas and Web Audio.
- See <http://sjward.org/projects/voice-administered-questionnaire-system/>

**Technologies used:** Javascript, PHP, Web Audio, Canvas, HTML5, CSS3.

## **University of Manchester** April 2017 - December 2017

- Summary:** Fixed bugs and made functional enhancements to the Medical School's existing online curriculum management tools, and e-learning delivery platform.
- Project Details:** Created bespoke tools that sped up the process of putting together the program year specific materials, managing learning object relationships, controlling release times, and bulk editing.
- Integrated time/date-picking tools into the existing admin-side UI, and created bulk editing tools, allowing quick and very fine-grained control of content release over the academic year. Created admin-side search / picking interfaces for quickly editing relationship hierarchy between modules and learning objects.
- Rebuilt front end templates and fixed Javascript issues, created a bespoke user search module. Created responsive layouts.
- Technologies used:** Javascript, jQuery, jQuery-UI, PHP, WordPress API, HTML5, CSS3.

## **University of Manchester** September 2015 - August 2016

- Project Summary:** Developed 1MedBuzz, a student / staff intranet for the Division of Medical Education.
- Role:** Lead developer.
- Project Details:** The system was delivered to a WordPress Multisite network and included the following features:
- Student / Staff profile management.
  - Placements listing / review
  - Gamification / awards
  - A 'Stack Overflow' style Q&A forum
  - An Ads / Marketplace module.
  - Integration into a central authentication system.
- Technologies used:** PHP, MySQL, WordPress, Javascript, Ajax, jQuery, HTML5, CSS3.

## **UK Transcription** January 2016

- Summary:** Delivered PHP modules for site development testing.
- Project Details:** This was development for a specialist audio transcription company that implements a 'task-card' self-assignment system with freelance transcribers. Database manipulation, job splitting, assigning, and tracking. Clear liason, and an understanding the client's unique system were key to working effectively in this role.
- Technologies used:** MySQL, PHP, Joomla 3, Fabrik.

## **University of Southampton / British Council** October 2016 - March 2017

- Summary:** Created a general purpose and extensible LMS, leveraging the open-source WordPress platform.
- Project Details:** This package was delivered as a re-useable WordPress theme, and included the following features:
- Learning materials organised into Modules/Lectures/Slides
  - Allows students to track their progress through the learning materials
  - Provides tutors with at-a-glance stats, and ability to message their students via the site.
  - Student profile management and blog creation interfaces
  - Extensible student / tutor dashboards
- The system is being piloted at The University of Guadalajara in Mexico.
- Technologies used:** PHP, MySQL, WordPress, Javascript, HTML5, CSS.

## Window Wanderland October 2015 - February 2016

- Summary: Developed and delivered a community events management application.
- Role: Lead developer.
- Project Details: The system incorporated an event listing and signup process, google maps implementation with custom drawing tools. event administrator and participant dashboards, event management interfaces, participant – organiser communication, and event galleries.
- Developed the site's data structures and architecture.
  - Built administrative and front end interfaces.
  - Created bespoke map tools using Google Maps API.
  - Worked closely with the client to develop a feasible brief.
- Technologies used: Google Maps API, WordPress API, PHP, jQuery, HTML5, CSS3.

## Open Source WordPress Projects

The following are active open-source projects released in the [WordPress Plugin Repository](#).

Project	Role	View Project At
MP3-jPlayer	Author	<a href="https://wordpress.org/plugins/mp3-jplayer/">https://wordpress.org/plugins/mp3-jplayer/</a> <a href="http://mp3-jplayer.com/">http://mp3-jplayer.com/</a> Active installs: 20,000+
PDF Creator	Primary Author	<a href="https://wordpress.org/plugins/pdf-creator-lite/">https://wordpress.org/plugins/pdf-creator-lite/</a>
LinkedIn Lite	Primary Author	<a href="https://wordpress.org/plugins/linkedin-lite/">https://wordpress.org/plugins/linkedin-lite/</a>
Progress Tracker	Contributing Author	<a href="https://wordpress.org/plugins/progress-tracker/">https://wordpress.org/plugins/progress-tracker/</a>
Quiz Tool Lite	Contributing Author	<a href="https://wordpress.org/plugins/quiz-tool-lite/">https://wordpress.org/plugins/quiz-tool-lite/</a>
Multisite Auditor	Contributing Author	<a href="https://wordpress.org/plugins/multisite-auditor/">https://wordpress.org/plugins/multisite-auditor/</a>

## Other WordPress Plugins

Framework / Plugin extensibility <http://mp3-jplayer.com/add-ons/>

## Previous Work History:

### Blue Frontier April - July 2015

- Summary: Front end web development, working with Joomla and WordPress. Site migration and upgrades. Bug fixing. Joomla component and module modification and creation. Object oriented PHP.
- Project Details: Created responsive layouts for new builds and migrations from Joomla 2 to 3 for the front-end team. Worked with the back-end team to create custom php modules for Joomla installs, solved problems and fixed bugs in PHP and Javascript. See:
- <http://www.baileyrobinson.com/>
  - <https://www.clinical-partners.co.uk/>
  - <http://www.cctvenues.co.uk/>
- Technologies used: Joomla 2x/3x, Gantry, PHP, Javascript, jQuery, HTML, HTML5, CSS, CSS3, Bootstrap, WidgetKit, RocketThemes, WordPress.

## **University of Manchester** January - February 2015

- Summary: Developed web-based PDF creation utilities for the School of Medicine.
- Project Details: Created modules for the School of Medicine to create and deliver customised PDF documents to users via the browser. Interfaced with existing systems to pull relevant data into the documents.
- Technologies used: Javascript, Ajax, PHP, WordPress API, TCPDF, FPDF, HTML, CSS.

## **University of Southampton** September - October 2014

- Summary: Delivered an OBI compliant Mozilla Open-Badge Issuer framework.
- Project Details: Developed an issuer framework according to OBI spec, for creating and awarding Open Badges.
- Provided PHP callback methods for the programmatic issuing and revocation of badges, and pushing them to a student's Mozilla Backpack.
- Created an admin interface for creating / managing badges, and templates for displaying awards to users.
- Technologies Used: PHP, Javascript, JSON, REST, Mozilla Backpack/Persona API, PHP, Javascript, HTML, CSS.

## **University of Southampton** January - March 2014

- Summary: Re-create University e-Learning Modules as Javascript / HTML5 pages.
- Project Details: These were simple informative click/reveal modules originally built in Adobe Flash, that were re-built from scratch using purely native browser scripts and HTML5 / CSS. The project included creation of all graphic elements, and many improvements were made to the GUI and presentational layout of the modules.
- Technologies used: Javascript/jQuery, HTML, CSS.

## **InterSys Ltd** 2010 - 2013

- Role: Front end web development, design, and support.
- Project Details: Created and maintained small and medium level business websites across a broad range of sectors including Pharmaceutical, Corporate Training, Medical retail, Recruitment.
- Technologies used: PHP, MySQL, JS, jQuery, WordPress, HTML, CSS.

## **Education - Degree**

Institute of Sound and Vibration Research (ISVR), University of Southampton.  
Acoustics and Vibration BEng (Hons) 2-1

## **References:**

Professional and personal references are available upon request.

## **Skill Keywords**

PHP, MySQL, Javascript, Ajax, jQuery, HTML, HTML5, CSS, CSS3, WordPress API, Joomla API, Gantry, OAuth, Bootstrap, WidgetKit, responsive layout, WooCommerce, Rocket Themes, LinkedIn API, Twitter API, Mozilla Open Badges, OBI, User Interface, UI, GUI, CMS, eCommerce, Box2D, Physics Engine, HTML5 Canvas, Javascript Animation, Pixi.js, HTML5 gaming, Back end, Systems, Front end, LAMP, audio, digital audio, gamification, CAS.