NICHOLAS JONES

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Portfolio Website: http://njajones.co.uk

WORK EXPERIENCE

06/2012-Present **Freelance iOS Developer**

- Sky Island Explorer (in development): iOS app for saving photos and drawings as journal entries along with associated data (using Magical Records, ACE-DrawingView and UIImagePicker). Project includes a website to which entries can be sent (using AFNetworking) and a back-end administration section for approving new pictures. Data is saved server side in a MySQL database and processed with PHP.
- The Loft Cinema app for iPhone/iPad: iOS app for displaying show times and news. NSURLConnection contacts Twitter/RTS APIs and the XML/JSON response is parsed with the GData class and stored using Core Data. Shows can be added to the default calendar with Event Kit. Object orientated design pattern ensured simple recent redesign to use AFNetworking, Sharekit and MagicalRecord frameworks (installed as Pods) as well as transition to v1.1 of the Twitter REST API.
- Flandrau Science Center iPad apps: a series of four multiple choice quizzes for iPad to be used by children at outreach events. Combined NSTimer, and UIBezierPath to animate highlighting of interactive areas. App settings are stored using NSUserDefaults and JDDroppableView class is used to allow drag and drop of UI elements onto specific targets. AudioToolbox and MediaPlayer frameworks control audio and visual responses to user interactions.

11/2010-Present **Freelance Web Programmer**

- Wordpress sites: Designed and built a number of Wordpress sites (see portfolio at http://njajones.co.uk). Mailchimp API used to create email campaign templates, and integrate subscription functionality into Wordpress sites.
- Silva (UCL, UK): - Transfer of Mechanical Engineering and Physics and Astronomy departmental sites to CMS. HTML, CSS and jQuery used to customise site outside of CMS capability. Refactored PHP code to interface with CMS.

11/2010-06/2011 **Web programmer - IRIS Project, UCL, UK**
Part of small team enabling reuse of research database data. Independently developed PHP code to process XML feed from database and display it in user-friendly formats using XSLT, and wordML. Staff profiles are generated using a RESTful design pattern.

01/2008-11/2010 **Web Administrator - Department of Chemistry (UCL, UK)**
Maintained and developed departmental site, and student/staff intranet. Common duties and projects:

- Responded to staff requests and creating original content
- Updated site whilst considering W3C accessibility standards
- Performed regular checks of the sites currency
- Migrated site to Silva CMS. Required a redesign of site appearance and structure, implementation of Silva functionality and rewrite/restructuring of existing information for an online audience.
- Designed and built staff and student intranets.

ADDITIONAL EXPERIENCE

05/2013-Present	**Stock Monkey:** Stock market web application involving PHP, jQuery, MySQL and JSON. Uses Yahoo QL API to obtain stock price data.
07/2010-01/2011	**Volunteer, Foodcycle, UK:** Wordpress templates and dynamic quiz using PHP, JavaScript, jQuery and Ajax.
02/2010-10/2010	**Volunteer, Health Link, UK and Mary Islington Community Partnership, UK:** Performed SEO, and advised on improvements to CMS.

CORE SKILLS

IT Skills	Trained in various Microsoft packages, programming languages (including PHP, MySQL, jQuery, Java, Matlab), UNIX scripting and web application development. Rapidly learnt Objective-C and Cocoa Touch.
Communication	Extensive experience in presenting research and information in a variety of formats and for a range of audiences. Including academec and non-academic papers and reports, graphic material and verbal presentations.
Project Management	Managed large and complex projects both solo and as a team leader. During my PhD, I had sole responsibility for the direction and focus of a large body of research. Managed many varied projects as a freelance developer.
Time Management	Experience balancing large and conflicting workloads. Strong time management was required during my PhD and MSc whilst I balanced my research with working as the main web developer for the Department of Chemistry (UCL).
Self motivated	High level of self motivation and discipline. Research required the drive to work on projects that often yielded no immediate results.

WORK RELATED ONGOING EDUCATION

2012	Programming Languages - Prof Dan Grossman (University Of Washington)
2011	Machine Learning - Prof Ng (Stanford), Databases - Prof Widom (Stanford)
2010	Certificate in web application development (Open University) included MySQL, JavaScript and PHP; Java, PHP (UCL)
2008/2009	LaTeX, C++, Linux and Unix scripting (Oxford)
2004/2005	Dreamweaver, FORTRAN 95 (UCL)

EDUCATION

2008-2009	**University of Oxford MSc in Theoretical Chemistry** Taught courses: advanced calculus, complex analysis, and statistical mechanics.
2004-2008	**University College London PhD in Physical Chemistry** Title: The spectroscopy of bound and predissociating Rydberg states of NO
2000-2003	**University of Leeds - First Class Bsc (Hons) in Chemistry**

REFERENCES

Available on request