Dominic Starkey

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I am an experienced software developer with a background in engineering, technology and science. I have hands-on experience building and maintaining successful software and hardware projects as well as creating and maintaining complex cloud-based applications. I am currently seeking an opportunity to work on exciting new projects with fast turn-around times that allow me to utilise and expand my skills.

Skills and Interests

Frontend:	HTML5, JS (inc. jQuery), CSS (Bootstrap, Zurb, Skeleton)	$^{9}/_{10}$
Backend:	PHP (plus Wordpress & Magento), Java, Python, Node.js	$^{8.5}/_{10}$
Database:	MySQL, SQL Server, Redis, Memcached	$^{7}/_{10}$
Design:	Adobe Photoshop, Illustrator, InDesign	$^{6}/_{10}$
Enterprise:	Microsoft Dynamics Nav, SalesLogix, Sharepoint	$^{6}/_{10}$

Recent side projects:
***** Controlling LIFX light bulbs using a Rasp Pi and Node.js ***** Extending Spotify to automatically create "artist playlists" using data from Echo Nest ***** Using Raphaël and javascript to build an automatic street-view solar panel overlay ***** Sticking a Raspberry Pi to a vinyl player to send audio to my PC ***** Backing this project on Kickstarter (I don't know what I'm going to do with it yet!)

Past Projects

October 2012 - Present: Solarcentury *Lead Software Developer*

Project: SolarcenturyOnline - https://online.solarcentury.com
Team management, agile, continuous integration, rackspace, java, python, html5, jQuery, css, bootstrap

I was the first hire of a software development team tasked with getting Solarcentury's B2B sales operation online (first sale - Jan 2013) and integrating it with the CRM, ERP and other back-office systems. My role was to act both as an architect, making decisions and advising best practice, and as a developer, getting involved at coding at a low level. More than 50% of the company's distribution sales are now driven through the website.

March 2010-Oct 2012: Better Generation *Technical Manager*

Project: Power Predictor GSM (Hardware)
Supplier management, electronics, API design, hardware

I led the design and development of the newest iteration of a GSM linked wind and solar sensor. The sensor links to a cloud-based software application that processes the data from the sensor and makes recommendations on renewable technologies suitable for the site. When I left Better Generation, over 3000 people were using this service worldwide.

Project: Power Predictor (software) - http://www.powerpredictor.com/
php, zend framework, noSQL, redis, mySQL, AWS, html5, jQuery, css, responsive, mobile web app

I had helped to design and develop powerpredictor.com as a junior member of the Better Generation team and I continued to change and improve the site and brand after initial development was completed. I completed a project to improve the look and feel of powerpredictor.com by redesigning many elements of the UI, UX and overall design. The main aspect of this was to retro-fit a responsive design to every page on the site, improving the experience for mobile and tablet users.

Project: Foresight - http://foresight.powerpredictor.com
php, zend framework, html5, jQuery underscore.js, css, skeleton framework, responsive, mobile web app

I was the sole developer on this project back in 2012. I conceived the product and then designed and built as a side-project so as to diversify the company's revenue and build my skills. It is a mobile-first design that allows customers access to the vast database of information collected by the Power Predictors without having to measure for months at a time. It is still one of Better Generation's major offerings today.

Other Roles

Early 2010: Napa Capital *Researcher/Consultant*

Autumn 2009: CleanAnalysis *Researcher*

Education

2005-2009: The University of Warwick
Mechanical Engineering with Sustainability (MEng hons 2:1)

At Warwick, I undertook an individual project concerning the drive to improve the thermal energy efficiency of domestic dwellings in the UK. The project, which was later to become my dissertation, investigated the obstacles to obtaining planning permission for external wall insulation. This involved a wide-ranging survey of all the local planning officers in the United Kingdom and provided me with a greater understanding of the legislation and processes involved in sustainable development.

In my final year, I was chosen to be part of a project working on a novel passive-adaptive micro wind turbine. This was a technical project that allowed me to exercise my mathematical and problem solving skills, combining them with my interest in computing and micro renewables. One of the main goals of the project was to create a Matlab model, requiring some coding. I was also able to learn from and help each of the other students working on the electronic designs, the support structures and the business and investment proposals. This provided me with a much wider base of skills and an appreciation for the commutative processes required on any project.

1998-2005: Simon Langton Grammar School for Boys, Canterbury
A-Levels: Maths, Physics, History *AS-Level: Economics* *GCSEs: 10 A*-Cs*

References

Available on request