

# DANIEL VOYCE

## PROFILE

I have over 10 years experience in building and delivering systems of all sizes, whether it be in strategic roles, the role of a consulting / technical architect, or through directly leading development teams as a senior developer.

I successfully ran my own business for 7 years in the UK with a team of 8 in house and a small offshore team, therefore I am as comfortable presenting strategic IT direction to senior level management as I am getting my hands dirty producing code.

I am capable of quickly adapting to dynamic environments, I thrive under pressure and maintain a results-driven "I got this" attitude at all times.

Github: <http://www.github.com/voycey>

LinkedIn: <https://www.linkedin.com/in/danielvoyce>

## EMPLOYMENT AND PREVIOUS CLIENTS

### **70:20:10 Forum (Feb 2013 – Date)**

#### **Technical Architect**

A company based around Organisational Learning, The website consists of a large collection of access controlled documents, posts, videos, events with a full community attached.

As a new company, there were a lot of ideas, a lot of vision – I helped to realise the companies digital strategy and then implement this via road maps to then work with my development team in order to deliver them.

The solution was built and delivered using Opsworks (with Chef for configuration) and utilises several other AWS functions (S3, RDS, SES, Opsworks). We use Redis as a message queue to handle expensive operations such as API calls and Email sending. Sphinx search was implemented with CakePHP and handles multiple indexes which are rotated on the server using cron, this will soon be migrated to Elastic Search as the need for instant index updates becomes more necessary.

A full user management system was created which handles granular permissions over a multitude of access levels, there is a full administration panel built in also. The site runs 100% under HTTPS, using SPDY (to offset SSL handshake overheads).

The site heavily interacts with our Salesforce installation using an Enterprise Datasource that I wrote specifically for this project (Which has since been released as Open Source Software on my Github account). Various other API's are leveraged throughout the site including Twitter, Campaign Monitor and Adobe Connect.

**Technologies:** PHP 5.5, PHPUnit, CakePHP 2.x, MySQL, HTML5, CSS3, LESS, JQuery, Node.js

### **Nu Order Webs Ltd (May 2006 – July 2014)**

#### **Owner / Director**

Our company specialised in digital consulting and also providing professional digital solutions, Search Engine optimisation and bespoke development for business process automation. I led a team of 4 full time programmers (plus a small offshore team in Thailand), with my business partner leading a team of 4 full SEO specialists.

**I resigned from the company following my move to Australia and helped implement it as a new marketing & SEO company with my business partner.**

### **Dance Midi Samples Ltd (June 2012 – Feb 2013)**

## Consulting Architect

I have worked with Dance Midi Samples since their inception back in 2008 where I helped design their digital strategy and then building their very first website that had 20 products to the behemoth of the site it is now containing 1000s.

The site was built from the ground up using Magento as the base which was then heavily customised to fit in with the requirements of sending large (often 2GB+) files to users. We created a hybrid Physical / Cloud hosting infrastructure for the site which handled these file sizes well.

**Technologies:** PHP5, Magento (Zend Framework), jQuery, Beanstalkd

## Reftech (August 2011 – June 2012) Consulting Architect

Reftech deal with event registration and badging for large events (often upward of 60,000 attendees), using a custom coded system called EventReference, the system itself is coded in 100% OO PHP 5 and was in development way before I came onto the project, however I implemented a few paradigms to help make the code base a bit more friendly to external developers coming in (as they expected to increase development significantly). This has included implementing structures that mimic certain MVC framework methods of doing things, this has increased development efficiency and tidied the codebase up somewhat.

I have also recently rewritten the bulk email system built into it to EventReference, for this I used beanstalkd to act as an in memory queue for the email and node.js to process the emails asynchronously to prevent blocking thus speeding up the email application many thousands of times.

**Frontend Methodology:** jQuery was never used on the project before I started on it – now it is exclusively used for all Javascript on the front end of the site after discussing and educating the long standing developers who were there, there have since been large frontend based applications (for example availability calendars and booking systems) built solely using jQuery. We also touched on using Phonegap as a method for onsite registrations to allow staff to increase registrations by utilising iPads onsite and a custom app to register against the system and work with the current sync tools that are in place.

**Development Practices:** We moved from a “local webserver” development approach to a more centralised development environment using VMWare images and a standardised LTS version of Ubuntu that matched the production servers software, SVN was strictly enforced as the only method of updating the live server. Developer code reviews were also an important part of my role.

**Technologies:** PHP5, CakePHP, jQuery and jQuery UI, beanstalkd, node.js, Phonegap

## Sing To The World Ltd. (August 2008 – June 2012) Consulting Systems Manager

Sing to the world is an interesting company with a very in-depth automated set of systems. Customers place orders for custom karaoke discs, they choose the tracks and then these are automatically burnt to a CD which is then picked and packed and despatched to the customer.

Because of this level of automation, a high level of integration is required across multiple systems and architectures.

**Technologies :** CakePHP (Versions 2.x and 1.x), Development / Maintenance on Proprietary OO-PHP System, Wordpress, jQuery & JQueryUI,, also used Python and Django, beanstalkd, node.js.

**Server Management / Administration:** Ubuntu, CentOS, Cloud Servers, FC2, Windows 2003, IBM Storedge 3511 Raid Management, Build and Administration of Custom Adaptec Backup Raid 6 array, VMWare vSphere

**Other Technologies:** Differential Rsync Backups, Bash / Expect Shell scripting for Business Process Automation, Setup and installation of an Asterix PABX, Full server room purchase, setup and installation. VMWare Virtualisation of internal systems, Microtech Automated Disk Production systems (Disk Burning Robots), Automated format conversion for DVD production.

## **National Council for Graduate Entrepreneurship (February 2007 – August 2008)** **Systems Manager / Lead Developer**

A small government funded company aimed at increasing the number of university graduates starting their own business.

I was responsible for the production and maintenance of the company website which was built using CodeIgniter, and the production of a new website which we developed in CakePHP. My small team consisted of a junior programmer, an offshore development company and a graphic designer, a very hands on role, it required me to jump between design, coding and systems management as required.

We had 2 co-located RHEL4 servers which required regular maintenance, backups and other general systems admin duties.

**Technologies:** PHP, MySQL, Codeigniter, CakePHP

## **E-Sterling Ltd (May 2006 – February 2007)** **Full Stack Developer**

Full Stack role for a full service agency – PHP, ASP, HTML and Javascript.

## **Telewest PLC, Mailbox, Birmingham (July 2005 – May 2006) - Credit Risk Manager**

## **Aston University – Various bar jobs / holiday jobs (July 2004 – July 2005)**

## **IBM UK Ltd (July 2003 – July 2004)** **Service Delivery & Infrastructure Support**

Working for IBM under the CLS project, Main duties were varied; primarily it was actioning changes (software updates, creating Korn Shell Scripts for use on the systems – and other jobs). I was working as part of the DBA (Database Administration) team for the CLS (Continuous Linked Settlement) project managing, users, quotas and 30 DB2 databases across 3 sites, including the production Core Database.

During my time at IBM I also had the chance to pursue some of my own ideas, relevant to the job I was doing, one such was designing and developing a program to be implemented for use within IBM and possibly to be sold to external companies due to the amount of man-hours it saves per week doing essential tasks on the Enterprise Storage Server.

My job involved a lot of systems administration on both Windows but more extensively on Unix Systems. Managing user accounts, quotas (on both system and database / SAN storage). Using only POSIX tools I was forced to become comfortable with VI as it was used on a daily basis. I worked in a fast paced environment where changes needed to be committed as quickly and as accurately as possible due to the critical nature of the project.

### Main Achievements:

**ESS Shark LUN Identification tool** – This program was designed to take out 99% of the manual work needed when assigning volume groups on an ESS (Enterprise Storage Server). It also produced detailed diagrams of the current volume group assignments on the ESS to allow for easy allocation of free space. This has been picked up by the storage specialist unit and has been modified for inclusion within the “ESS expert” system as packaged with the ESS Shark. This was programmed in VB, Python, Ada and Java with some Korn scripts to initiate certain Unix Routines.

**Analytical Tablespace Monitoring System (ATMS)** – This was an advanced Korn Shell script that was designed to create a statistical representation of the space on the core production database, the ATMS monitored tablespace volumes against and returned a Tivoli alert if certain rules were broken, this would then be picked up by the CLS command centre and errors corrected accordingly. This system was still in use on the Core Production System as of 2009.

## VOLUNTARY / OTHER WORK

### June 2000 – Pennsnet School

- Working with disabled children (up to the ages of 19) on a weekly basis providing assistance with basic motor skills by playing games, and with general interaction.
- I followed this up with 2 weeks work experience working for the same school where I acted as a classroom assistant, during this time I had the opportunity to learn some Makaton® and BSL® sign language.

### August 2003 – St Edmunds Catholic School

- Working with children aged 13-16 on a project against several other schools in the area to design a website aimed at their age group with information about Portsmouth
- I spent 6 hours a week outside normal working hours with the children and was on constant “call” if they needed technical advice.
- Our school came 2<sup>nd</sup> overall in the rankings

## EDUCATION

### Aston University

October 2001 – June 2005

Bachelor of Computer Science Honours (Lower Second Class)

**First year modules:** Introduction to Systematic Programming (Ada95), Artificial Intelligence, Understanding Information Systems, Computer Systems & Architecture, Mathematics for Computer Science, Data Modeling & Database Systems, Internet Computing (Java), Communication Skills.

**Second year modules:** Group Project, Software Engineering(Ada95), Data Structures and Algorithms with Java, Computer Graphics (OpenGL), Software for Artificial Intelligence(Lisp), Programming Language Concepts, Java Program Development, Internet Programming with Java, Human- Computer Interaction.

**Final year modules:** Individual Project, Formal Software Development, Distributed Systems (Ada95), Software Engineering: Management & Metrics, Programming Language Implementations, Geographic Information Systems, Multimedia Systems, Information Security, Distributed Applications (Java).

**Individual project:** *Digital Photograph Management Centre*. The project was designed to assist in the conversion of image dimensions and resolution between digital camera photographs and standard picture sizes printable at the developers. This was accomplished by storing transformations of the original image using PHP and Java.

## SKILLS

### Programming Languages:

PHP5 (Advanced (OO and MVC)), Ruby (Advanced), jQuery + jQuery UI (Advanced), SQL (Advanced), Javascript (Advanced), Java Intermediate),

### Web Design Specific:

CakePHP (Advanced), Rails (Intermediate), Magento (Advanced), Joomla! (Advanced), Yii (Advanced), Drupal (Advanced), node.js (Advanced), Photoshop (Advanced), Illustrator (Advanced), Cordova / Phonegap (Intermediate), Backbone.js (Intermediate)

### Environments:

Linux (Linux Foundation Certifie), AWS / Cloud (Advanced), Windows (Advanced - Desktop and Server), NetBSD (Intermediate), Solaris / AIX (Intermediate).

### Other:

UML (Advanced), Presentation Skills (Advanced), HACMP / Cluster (Intermediate)