

# Mike Preston

## **Personal Details**

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## **Relevant Experience**

Jun 2011 – Present

### **Director**

#### **Sysdom Ltd**

*Sysdom is a small consultancy and development company based in rural Leicestershire.*

- I manage around 20 servers on a day to day basis using cfengine for configuration management, Nagios and Munin for monitoring, and rsyslog and logsentry for log monitoring.
- We are still developing our first online collaboration application and hope to launch in the next two months.

Mar 2008 – Mar 2011

### **Freelance Developer and Network Engineer**

#### **Keything Marketing – Responsible for System Administration and Web Design and Programming**

*Keything is a marketing company based in Florida, USA*

- Constructed a number of sites based around a custom CMS (PHP5 based) for a number of their clients.
- Built custom Wordpress templates for customers

#### **Buzzbot – QA and PHP Programmer**

*Buzzbot was a MLM social networking site. (Further info on request)*

- Wrote custom shell scripts to automate backup solutions.
- Responsible for QA and white-box testing new features written by other developers.

#### **Tele500 – Back-end integration and testing**

*Tele500 was a small VoIP reseller based in London, UK*

- Implemented site for new telecoms startup
- Built back-end infrastructure based on a2billing and template driven CMS.

#### **Cafe Networks – PHP Programmer**

*Cafe Networks is a small hosting and internet cafe service company based in Leicester, UK*

- Worked on payment systems for internet 'cafe-in-a-box' system
- Implemented new features on customer websites

#### **Localphone – Freelance VoIP Engineer**

*Localphone.com is a large and successful VoIP service provider based in Sheffield, UK*

- Support systems that I designed while working full time for the company
- Provision new systems based on Debian and either Asterisk or Callweaver
- Built new subsystem for Text-to-speech and Voice recognition

#### **Various/Undisclosed**

- Built a directory site based on Zend Framework with Facebook and Paypal integration.
- Designed and built cloud based n-tier cluster solution with on demand scaling and Dynect cloud dns service based on the Rackspace cloud running Nginx, CouchDB, MySQL, Pound and Memcache with backup to Amazon Web Services.
- Wrote internal policies for a small e-commerce company as an external consultant.
- Moved an e-commerce site over from master-slave MySQL databases to a sharded multiple master-master MySQL configuration.

Aug 2006 – July 2007

### **Chief VoIP Engineer**

#### **Localphone – Chief VoIP Engineer**

*Localphone.com is a large and successful VoIP service provider based in Sheffield, UK*

- During the pre-launch phase, built most of the Media Server infrastructure.
- Based on a combination of OpenSER and Asterisk
- During the post-launch phase, added additional services to take advantage of new ideas based on customer feedback.

Aug 2006 – July 2007

## **Freelance Developer and Network Engineer**

### **EMNET – PHP Programmer**

*EMNET is an internet company based in Nottingham, UK*

- Re factored and completed a billing application for their website, after a developer left the company at short notice.
- Website used a Typo3 based CMS running on PHP4/MySQL.

### **Stable Hosting – VoIP Engineer and PHP Programmer**

*Stable Hosting is a hosting, VoIP and server management company based in New Jersey, USA*

- Designed and Implemented a web controlled IP PBX Appliance based upon SER and Asterisk.
- Designed a module for their custom platform to allow allocation of DDI numbers.

### **Ocean works UK – PHP Programmer**

*Oceanworks was a small hosting and development company based in Lichfield, UK*

- Added extra features and removed bugs within two of their clients websites.
- Websites used a custom CMS based on PHP4/MySQL running on SMP Red Hat servers.
- Built a proof of concept integration between a VoIP server and their Affinity Hosted CRM service.

### **Moo Telecom – External consultant**

*Moo Telecom was a small VoIP company based in Leicester, UK*

- This was a continuation of my role of Technical Director after I became an external consultant.

### **Other Companies**

- Wrote scripts in PHP5 to support clients SOAP based backend interface for multiple website front-ends.
- Custom built a Linux based iSCSI RAID Array, having a capacity of 3.4TB.
- Custom built Squid caching proxy appliances within VMware virtual machines.
- Built a system to allow on-site Linux servers to be reinstalled via a web interface using PXE booting on a DHCP enabled LAN.

Jan 2006 – Jul 2006

## **Technical Director**

### **Moo Telecom**

*Moo Telecom was a small VoIP company based in Leicester, UK*

- Designed and Implemented a fail-over, European infrastructure.
- Infrastructure consisted of multiple servers hosted in multiple countries. All running Red Hat or Centos based Linux distributions. With replicated MySQL4 servers as the data store.
- Provided 3<sup>rd</sup> tier technical support to clients.
- Specified Hardware and Software choices, allowing Moo to tie their hardware supplied to the customer, to their service.
- Built an on-line white pages system for their service using a replicated LDAP database (running on OpenLDAP).

Jul 2003 – Jan 2006

## **Freelance web developer and network engineer**

### **Zicom Internet** (based in Republic of Ireland, until Aug 2005)

- Redesigned and developed the back-end for a holiday portal using PHP and MySQL.  
<http://www.holidayaccommodationdirect.com> and <http://www.irishholidaysdirect.com>
- Responsible for the development of a tradesmen directory site for a client.  
<http://www.tradesmenireland.com>

### **For other companies.**

- Remastered Sun Cobalt Installation media to include updates
- Built a video streaming system (converting MPEG-2 video to .flv files suitable for playing with a flash player) for an media website.
- Designed (currently in second version) control panels for various functions on Linux Servers.
- Built various aspects of websites for other web design companies (outsourcing of dynamic parts of sites)
- Built on-line LDAP address books for companies (for use with email clients) allowing on-line administration.
- Installed a Microsoft Windows network with a Windows Server 2003 Primary Domain Controller with Roaming Profiles.
- Taught a beginners class on moving from Microsoft Office to Open Office.

Oct 2001- Apr 2003

### **Student Technician**

#### **Hawthorn Computer Node (De Montfort University)**

The Hawthorne computer node provides IT support and computer access to staff and students of the HLS faculty at De Montfort University.

- Assisted with user account maintenance.
- Provided support for student problems within the computer labs.
- Rectified printer problems within the computer labs.
- Performed basic OS and program installation for new and reconditioned machines.

Apr 2001 - Jul 2001

### **IT Manager and Assistant Call Centre Supervisor**

#### **Prewest Ltd**

*Prewest was a direct sales marketing company based in Leicester, UK*

- Responsible for all IT infrastructures within the company.
- Responsible for the control and usage of customer details database.
- Provided second Level Technical Support.
- Supervised all call centre staff when call centre manager wasn't present.

Feb 2001 - Apr 2001

### **Systems Programmer and Network Administrator.**

#### **Interactive Digital Marketing Ltd**

*IDM sold advertising and content on their online and CD based cdcard2web portal, based in London, UK*

- Designed and implemented an on-line template based web site editor.
- Developed a cross platform system to allow CDs to auto run on multiple architectures.

Dec 2000 - Jan 2001

### **Network Administrator and Web Developer**

#### **Prospport UK**

*Prospport was a small car accessories dealer and manufacturer based in Melton Mowbray, UK*

- Built an infrastructure for a corporate intranet.
- Upgraded their network architecture.

Mar 2000 - Sep 2000

### **Web Designer and Network Engineer**

#### **Zicom Internet**

*Zicom are a web development company based in Tipperary, Ireland (and formally based in Horsham and Leicester)*

- Assisted with the installation of many large networks.
- Provided technical support to protocol related issues during the development phases of many projects.

### **Courses and Qualifications**

Currently studying towards SANS GSEC and CISSP qualifications

C programming (City and Guilds)

Quality Assurance (3 day)

Completed two out of a four year course due to ill-health at De Montfort University. (Included modules on Java programming, Object orientated design, Database design, Networking and Quality Assurance)

A Level Computing

A Level Maths

A Level Physics

A Level General Studies

First Aid

Fire Safety

### **Personal Interests**

Cloud Computing

Robotics and Micro-controllers

Data Communication (including VoIP (Voice over Internet Protocol))

Camping and Hiking

### **Personal Statement**

I actively attempt to keep my skills up to date, and at home run Linux almost exclusively. I have a broad range of knowledge on many aspects of IT and if I don't know something I will generally endeavour to fix this deficit in my knowledge..