

Mike Welsh CV

Email: [hello@kytschi.com](mailto:hello@kytschi.com)

Tel: 07989 472 468

<https://kytschi.com>

An experienced software engineer with 20 years experience in software development from small charity projects through to large commercial builds. Able to work in a team or own my own.

## Work History

### **Dec 2023 – July 2024 (Contract)**

Prosper Labs (Consultant/Lead Developer)

Supporting Prosper Labs with a key project they are delivering around SEO, CMS and CRM/Lead generating systems I was tasked with building for them. They are looking to expand their system in a SAS within the year after the client trial period.

Tech and tasks:-

Zephir Lang, ChatGPT, PHP, JavaScript, Bash/Shell, CI/CD, Linux, MySQL/MariaDB, CSS, HTML, DevOps, Brevo, LinkedIn and support.

### **Sept 2023 – May 2024 (Contract)**

Digital Dunes (Consultant/Lead Developer)

Helped get three businesses of the ground from a technical point of view. Working mainly on building a new super fast and light weight CMS, e-commerce system and golf holiday booking platform. I've also been doing a lot of legacy system migration to new servers. Taking old ColdFusion and .Net apps and getting them running on newer tech.

Daily tasks and development:-

DevOps (Linux and Windows Server), PHP, Zephir Lang, JavaScript, VUE3, Bash/Shell, .Net, ColdFusion, MySQL/MariaDB, MSSQL, CSS, HTML, CI/CD, testing, customer support and much more.

Notable projects:-

#### ***Golf Scotland CRM***

A huge CRM built with a PHP API powering a VUE3 front end app. The CRM allows the Golf Scotland team to manage quotes and bookings for golfing holidays in the UK and Ireland.

#### ***Digital Dunes CMS***

Custom built super fast and light CMS built as a PHP module written in Zephir Lang. Has a number of key features from content serving, blogging, customer message handling, reviews, e-commerce and SEO tools. This was a part of an open source project I built with specific modifications to fit the companies and clients needs.

### **April 2023 – Present**

Quiet Connections CIC (Volunteer)

Offering dev support to them to help update their website and implement their new e-learning platform. Working on deploying their online community using NextCloud and MyBB. As well as building an e-learning platform.

### **March 2023 – May 2023 (Contract)**

Prosper Labs (Lead Developer)

Zephir, DevOps, Linux, Bash/Shell Scripting, API and Jira.

Built a Discord bot to allow project management via Jira by the project manager and announce/assign tasks to employees based in Discord. A parser system was added to allow bulk sharing of helpful information from another resource to the team in a knowledge sharing channel.

### **December 2020 - Aug 2022**

Kytschi Ltd (Senior/Lead Developer)

Worked on various projects from custom Linux builds to monolithic e-commerce systems. Some honourable mentions:-

#### ***Boutique Whitening E-Commerce System***

PHP, Phalcon, CI/CD, Unit Testing, HTML, CSS, JavaScript, API, MySQL, Linux/DevOps, Redis, GIT, SendGrid, Twillio, Shipping APIs and Stripe.

A monolithic e-commerce platform to replace around 5 internal apps the company used. The plan was to merge all those processes under one system allowing the staff easier and more productive access to the data.

Platform boasted integrations with their stock control system, their online dental finders, built-in invoicing system, online purchasing and payment system via Stripe. Payments could also be setup to be monthly recurring as often clients would just invoice for the same orders on a monthly basis. The payment system had a number of key features such as a discount system, late fees management and refund/overpayment balance management.

#### ***Talkopedia Blogging site***

WordPress, PHP, Phalcon, CI/CD, HTML, CSS, JavaScript, DevOps, Shell Scripting, MySQL and API.

A port of a WordPress blogging site into a bespoke CMS written in Phalcon. The new CMS is heavily SEO focussed allowing for dynamic content generation and SEO campaigns backed up by site scrapers and ChatGPT.

#### ***Everything Dental Online Dentist Finder***

PHP, CI/CD, Unit Testing, API, Laravel/Lumen, JSON, Vue.js, HTML, CSS, MySQL, Google maps and Linux/Devops.

Massive online dental finder to help user's find a local dentist in their area. Covered UK and Australia with the proposed expansion into other countries.

Sporting PHP back end API with Vue.js front end.

### **July 2020 – August 2020 (Contract)**

ActiveCell Tech Ltd (Software Developer)

*3D Printing API*

Linux, API, OctoPrint, Raspberry PI, PHP, Laravel and SQLite.

Built an API to allow the front end developer build an app so he could manage their 3D printing farm.

### **January 2020 – Sept 2020 (Full-Time)**

Tritility Ltd (Senior Web Developer/Support)

*CRM and Lead Generator Applications*

PHP, CakePHP 4, CI/CD, AWS, DevOps, IT support, MySQL/MariaDB, GIT, CSS, jQuery, HTML5, Linux, Docusign, Twillio, VOIP, Experian and Creditsafe.

Worked on maintaining their current bespoke CRM while building their new one.

**July 2019 – January 2020 (Full-Time)**

Papertrail.io (Senior Web Developer/DevOps/Support)  
*CRM and Document Management API*

PHP, PHPUnit, API, MySQL, MongoDB, Redis, Slack, Mandrill, SES, Chargebee, Intercom, Pusher. API, AWS and DevOps.

Working primarily on maintaining their API that drives their mobile app.

**March 2019 – April 2019 (Contract)**

Petards (Software Engineer/DevOps)  
*Media Management System*

PHP, PHPUnit, HTML, JavaScript (jQuery), MariaDB/MySQL VMs, AWS/Devops, and SQLite.

Building of a CMS that talks to custom hardware and software located on trains manage security footage.

**April 2018 – March 2019 (Full-Time)**

XLVets UK Ltd (Senior Web Developer/DevOps/Support)  
*CMS, CRM, Database Warehouse, Website*

PHP, PHPUnit, Symfony, MySQL, MS SQL, BI, DevOps, tech support, HTML, CSS, JavaScript and APIs.

Primarily doing general IT support and managing their online websites. One notable project was the building of a data warehouse to allow the business intelligence manager to build business intelligence reports. The warehouse merged around 6 different data sources into a single MS SQL server in a normalised format.

**September 2015 – April 2018 (Full-Time)**

One Utility Bill Ltd (Senior Developer/DevOps/Support)  
*Customer Relationship Management System*

PHP 5.6, PHP 7.0, PHPUnit, API, Smarty, MySQL, DevOps, tech support, HTML, CSS, JavaScript, Stripe, GoCardless, Angular, Twillio, Vonage, VOIP, Mandrill and MailChimp.

Built the companies first version of their bespoke system for running the company. The software was a monolithic system covering all departments of the business, i.e. customer support through to sales.

The software sported email and PDF parsing to automatically process bills for the admin team. Integration with payment systems, ticket support systems and email systems for customer support. Sales made use of the built in quote system that used "live" data feed from the energy industry.

**March 2015 – January 2017 (Voluntary)**

North Tyneside Altering Images of Mentality (AIM) Group (Web Developer/DevOps/Support)  
*Website*

WordPress, MySQL, graphic design work, spreadsheets, word, DevOps and group support.

**March 2015 – January 2017** (Voluntary)  
CAMEO North Tyneside Newcastle (Web Developer/DevOps/Support)  
*Website*

WordPress, MySQL, graphic design work, spreadsheets, word, DevOps, MailChimp and group support.

**April 2014 – Sept 2014** (Full-Time)  
SGP Consulting Ltd (Senior Developer/DevOps)

LAMP, Python, PHPUnit, Symfony, Laravel, CakePHP, CodeIgniter, Slim, DevOps, HTML, CSS, JavaScript, GIT, .net and Java Android work.

Worked on a number of projects from Android application builds to e-commerce systems.

**December 2013 – April 2014** (Voluntary)  
Adult Learning Alliance (Teaching Assistant/Support)  
*Teaching*

Assisting in the teaching to the introduction to building a website in HTML, CSS and JavaScript.

**March 2013 – December 2013** (Contract)  
Centre for Life (Lead Developer)  
*Content Management System*

Bespoke PHP 5.3 build, Smarty, MySQL, HTML, GIT, CSS, JavaScript, and DevOps.

Built the system that hosted their front facing user website.

**October 2009 – Sept 2011** (Full-Time)  
Portable Appliance Safety Services (Senior Developer/DevOps/Support)  
*CMS, CRM, Website, Reporting Tools, E-Commerce System*

Bespoke e-commerce and CMS system in PHP 5.2, Smarty, GIT, HTML, CSS, JavaScript, Python, MySQL, CI/CD, Unit Testing, Moodle and DevOps.

Wrote a bespoke e-commerce system that was used to power most of the companies sales. Worked on a number of other projects a notable one was an online content spinner to better promote websites to search engines.

Implemented a LMS based in Moodle to help deliver remote training.

**June 2008 – October 2009** (Full-Time)  
Indigo Multimedia Ltd (Web/Flash Developer/DevOps)

PHP, PHPUnit, Symfony, Zend, CakePHP, Yii, CodeIgniter, Flash, HTML CSS, MySQL, GIT, SVN, Postgres, AIR, MS SQL, CI/CD, Unit Testing, JavaScript, and DevOps.

Worked on various projects from e-commerce systems to front facing client websites. A notable build was an interactive software that assisted sports coaches in their training programs. The software allowed to track the position of various joints of a gymnast for example so you could gain information on what said joint is up to during the training session.

**September 2007 – June 2008** (Contract)  
Digital Fibre Ltd (Web Developer)  
*E-Commerce System*

PHP, PHPUnit, Smarty, CI/CD, Flash, HTML, CSS, GIT, SVN, JavaScript, Postgres and DevOps.

A massive e-commerce system designed to replace a number of key systems for a large marketing/shipping company.

**May 2007 – September 2007** (Contract)

The Amazing Group (Flash Developer)

*Music Player*

Flash, ActionScript, Javascript, GIT, SVN, Perl, and XML.

Development of their music player to allow you to play back user posted music on amazing tunes.

**March 2007 – June 2008** (Full-Time)

Fayd Solutions Ltd (Lead Developer)

CMS, E-commerce, Flash, ActionScript, Flex, ColdFusion, HTML, CSS, JavaScript, SVN, MySQL, Postgres, MS SQL, Oracle, PHP, DevOps, Unit Testing, C/C++, BASH, and .net.

Worked on various projects from e-commerce builds, online games, CRMs, CMS's, BI tools and static websites.

**March 2007 – February 2008** (Part-Time)

Captivu Ltd (Lead Developer)

*E-Learning Games*

Flash, ActionScript, HTML, CSS, PHP, MySQL, C++, and Custom Linux.

A custom Linux operating system that was used to host various interactive educational games in a touchscreen kiosk. The games were designed to teach children on various aspects of dental health and care.

**Sept 2006 – March 2007** (Full-Time)

Granada Learning (Flash Developer)

*E-Learning Games*

Flex 2.0, Flash, SVN, CI/CD, JavaScript, Oracle, and ActionScript 3.0 with ASUnit.

Building their new e-learning platform ported from Java to Flash. There was a number of interactive learning games.

**March 2006 – Sept 2006** (Full-Time)

Zest Marketing Solutions Ltd (Web/Software Developer/DevOps)

*Marketing Websites and Games*

PHP, PHPUnit, ColdFusion, CI/CD, DevOps, SVN, MySQL, Postgres, HTML, CSS, JavaScript.

Worked on various projects from online scratch cards to marketing websites for various products.

**January 2006 – March 2006** (Contract)

Northumbria University (Technical Developer)

*E-Learning*

PHP, DevOps, HTML, CSS and MySQL.

Worked on building a new feature for their intranet and some DevOps support with a new build.

**December 2005 – January 2006** (Contract)

YOnline (Web Developer)

*Website, CMS, Interactive Websites*

PHP, HTML, CSS, JavaScript, MySQL, Linux/DevOps, ASP.net, Flash and ActionScript

Supporting their lead developer with reducing his backlog of work. Mostly finishing off front facing websites and getting server's up and running to go live.

**December 2004 – May 2006** (Full-Time)

Independent Consultant (Sole trader)

*IT Projects*

C/C++, DevOps, .net, VB6, ColdFusion, PHP, MySQL, MS SQL, Oracle, Access, Flash, ActionScript, Python, BASH, HTML, CSS, JavaScript and SVN.

Worked on various projects namely for a company that was based at Newcastle University called Knowledge House.

**December 2004 – October 2005** (Part-Time)

V3 Technologies Ltd (Lead Developer)

*E-Learning Platform*

Sole developer of an e-learning training suite for the Virtual Centre of Learning Excellence (VLCE) project allowing SME's within the region in-house training. Aided in the expansion of V3 Technologies business and the awarding of a two year project from the VLCE. The e-learning training suite was written in Flash MX 2004/ActionScript 2.0 and ColdFusion 7.0. Other roles involved network administration of both Windows and Linux based systems, customer support, technical consultancy for documentation writing and presentations.

**June 2002 – September 2003** (Full-Time/Placement Year)

Northumbria University (Software Developer)

VB6, .net, Linux/Unix/Devops, teaching, e-learning material development, assisting lecturers and students, and the building of a Linux cluster to be used as a supercomputer.

## Education

### **September 2000 – July 2004**

BSc. (Hons) in Computer and Networking Technologies

Northumbria University (Graduated with 1st Class Honours and distinction in project)

### **September 1998 – July 2000**

HND in Electrical and Electronic Engineering (Merit), Northumbria University

### **September 1996 – July 1998**

BTec National Diploma in Electrical and Electronic Engineering, North Tyneside College

### **September 1991 – July 1996**

St Thomas More High School, North Tyneside 7 GCSEs including Mathematics, English and Science.

## Skills

Linux, Mac OS, Windows, UNIX and Amiga OS.

### Development:

#### Day to day

HTML(5), CSS3, PHP (5.6+, 7.0+, 8.0+),  
Phalcon, JSON, JavaScript, jQuery, GIT,  
MySQL

#### Able to work with

.net, any PHP framework, Bash/Shell, XML,  
Zephir, Python, JavaScript frameworks, Node,  
C/C++, Databases, ActionScript 3.0, Flash

**Other:** Word processing with Microsoft's Office Suite and Open Office, Photoshop, SQL and No-SQL.



## Interests

I enjoy drawing and sketching. Lately I've been writing my own programming language for the web inspired on AmigaBasic called kytschBasic. Checkout <https://kytschbasic.org> for more info.

Also been working on a bash/shell script ASCII based space adventure.  
<https://github.com/kytschi/omega-doom>

And also started to create my own compiler (written in C) for a language I've decided to create.

I've been mentoring a young developer for the last few years taking him from a non-developer through to him now placed in a role and releasing his first major project.

Other interests are making music, still enjoy making those good old chip mods, and retro-gaming.

## Referees

Liam Copping  
liam@prosper-labs.co.uk

Director  
Prosper Labs

Aidan Byrne  
contact@aidan-byrne.org.uk

Software Developer  
theidol