

# Carl Casbolt

## My Skills

The ability to develop using a wide range of technologies. I have excellent knowledge of **PHP, MySQL, PostgreSQL, Apache, NginX, AWS, Elasticsearch, Redis, Memcache, SVN** and **git**. I have good knowledge of **Akamai, ZTM, SOLR, MongoDB, bash scripting, CSS, XML, XSLT**. I also have experience with **Java, Ruby, Python**, and **Javascript**.

I have extensive knowledge of **Object Oriented development, Design patterns**, MVC frameworks (including **Symfony 1.x, Symfony2, Symfony3, Silex** and **Zend**), High traffic web systems, **Continuous Deployment** tools and various testing strategies for different platforms.

The ability to administer and configure web servers using automated tools such as **salt, puppet, chef** and **ansible**. Experience with the set up of **vagrant** and **docker** for local development. As well as knowledge on how to generate **RPMs** for continuous deployment.

The ability to manage an IT team to deliver projects in an agile manor with use of tools including **JIRA, TRAC** and **Agilo**. Running **scrum** and **burndown** within a **sprint**, including story estimation and sizing, planning poker and retrospectives. Ensuring code quality with **GitHub** code reviews and TDD with unit tests run on a **CI** environment.

The ability to mentor, train and get the best out of my team members and therefore improving productivity within the team.

An in depth knowledge of GNU/Linux (mainly Debian based), Mac OS and Windows.

## Employment History

### Squawka

July 2016 - present

**Key Skills:** ElasticSearch, Symfony3, PHP, MySQL, Github, Docker, Ansible, PHPUnit, Memcache, Git, internal APIs, TDD, JIRA, Agile.

Developing a stats micro-service & API written in ElasticSearch and Symfony3. The service pulls data from the existing REST API and converts them into a document for storage in ElasticSearch. Stats were generated by a mixture of ElasticSearch aggregations and some post-logic processing was done in Symfony before generating a REST response for consumption by the new website team.

I also spent time working on the Feed processor service that accepts XML files from Opta and converts them into MySQL for the internal REST API to use as well as 2 CMS's written in Symfony3 that were used to contract smaller websites within the network.

### VoucherCodes.co.uk (part of RetailMeNot Inc.)

March 2016 - July 2016

**Key Skills:** PHP, MySQL, AWS, TeamCity, Docker, Ansible, PHPUnit, Behat, Memcache, Git, internal APIs, TDD, JIRA, Agile, jQuery.

Developing a high CPA reward system where a user can be tracked leaving the website and making a retail purchase via affiliate networks. Pulling data from multiple networks, converting it into a standardised format and storing it in a local database.

Transactions can be evaluated and scored to determine if a reward is due based on qualifiers set by VoucherCodes staff. Code Review is conducted on all Pull Requests before they are accepted into the main develop branch. Work is conducted in 2 week sprints with weekly demo to wider engineering team and monthly demo to stake holders.

## Kurt Geiger

January 2016 - February 2016

**Key Skills:** PHP, MySQL, Symfony3, Doctrine, AWS, Jenkins, PHPUnit, Behat, Memcache, Git, internal APIs, TDD, JIRA, Agile, Bootstrap, Compass.

Developing a custom CMS tool in Symfony3 (3.0.1) to control blocks of content across multiple websites. Deployed in AWS and using GO-CD for continuous delivery. Developed in an agile way and using TDD with a mixture of PHPUnit and Behat. Code Review is conducted on all Pull Requests before they are accepted into the main develop branch. Work is conducted in 2 week sprints with an end demo to stakeholders.

## BAFTA Research

November 2015 - December 2015

**Key Skills:** PHP, MySQL, Symfony3, Doctrine, AWS, Jenkins, PHPUnit, Behat, Memcache, Git, internal APIs, TDD, JIRA, Agile, Bootstrap, Compass.

Working as a consultant in a small team of 3 developers to build and deliver an MVP video portal. Written in Symfony2 with Doctrine as the ORM the development process involved a Jenkins CI instance that I set up to process and build all pull requests submitted via GitHub. The code has a mixture of PHPUnit tests and Behat integration tests for code quality, which run with every build. All code is reviewed by at least one other developer and work is assigned and tracked via JIRA. Sprints consist of a week and include a demo at the end. GitHub status is also set on all PRs so failing tests cannot be merged.

## Rightster

July 2013 - November 2015

**Key Skills:** PHP, PostgreSQL, Elasticsearch, REST, AWS, Redis, Memcache, Akamai, Git, encoding.com API, Google Drive API, Jenkins, TDD, JIRA, Agile, PHPUnit

Working as the Technical Lead to the core platform, this included an in-house created MVC framework deployed on AWS instances. Using PostgreSQL and Elasticsearch for storage, as well as Akamai, Cloudfront, Redis and Memcache for caching.

Platform unit tests are written in PHPUnit and run on every GitHub Pull Request by a Jenkins cluster. Code Review and QA is conducted on all Pull Requests before they are accepted into the main dev branch. Work is conducted in 2 week agile sprints.

<https://my.rightster.com>

## Time Inc. UK (formally IPC Media)

April 2008 - June 2013

**Key Skills:** PHP, MySQL, SOLR, SubVersion, Git, Memcache, Akamai, Savvis, REST, Jenkins, Symfony, MVC, TDD, Selenium, PHPUnit, MongoDB

Projects included the main CMS system for over 30 magazine websites. Bespoke galleries API written for House to Home. Recipe search engine updates including faceted search within SOLR. API service to power mobile optimised versions of 20 magazine websites.

Release Management for several critical system updates, including the migration of most magazine websites to a new image storage service.

<http://www.housetohome.co.uk> <http://www.goodtoknow.co.uk> <http://www.womanandhome.com>

## Sony PlayStation

July 2005 - April 2008

**Key Skills:** PHP, PostgreSQL, SubVersion, Memcache, XHTML, CSS, JavaScript, Multilingual, gettext, Selenium

Helped to build and improve the PlayStation Developer Network (SceDev) which allows game developers to download tools and software to develop games on several PlayStation titles including the PSP and PS3 formats. The system also provided an internal bug tracking solution written in PHP and PostgreSQL, which was translated into 3 languages by gettext.

<https://www.scedev.net>

## PURE FM (Portsmouth University)

July 2005 - Summer 2008

**Key Skills:** PHP, MySQL, SubVersion, XHTML, CSS, JavaScript, Audio Streaming

Working with university students to improve the radio station website and introducing best practices including SVN source control and design patterns. Helping with the rebrand and relaunch of the student website as well as provide a framework to allow them to build and maintain their own DJ & Show Profile pages.

<http://www.purefm.com>

## Education

### ElasticSearch Training

Core ElasticSearch ( 2 day training course with engineers from Elastic Team )

### University of Portsmouth

BSc (Hons) Internet Technology – Upper Second Class degree ( 2:1 )

### Woodhouse College

'A' Level Computing and Physics, and 'AS' Level Maths,

### Southgate Secondary School

9 GSCSs Grade B or above (including Math's and English)

## Contact details

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## References

Available upon request.