

# Iain Mullan

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I'm a full-stack developer with extensive experience in API development and integrations, CMS development, and responsive web interfaces. My most recent roles have been focussed around DevOps on Amazon Web Services, using Ansible and Terraform to build out highly scalable global infrastructure. I have also developed a handful of personal projects for iOS in both Objective-C and Swift, currently in the App Store.

## Certifications

AWS Solutions Architect – Associate Level July 2019

## Work Experience

Laundrapp Nov 2017 – June 2019

Initially hired as a Senior PHP engineer, I was later tasked with implementing DevOps practises within the team as their infrastructure needs became more complex. The nature of the business demanded the replication of identical but isolated infastructure across several countries, so an infrastructure-as-code mindset was critical.

I worked on the entire pipeline, from setting up dev environments with **Vagrant** and **Ansible**, to **CI/CD** with **Jenkins**, through to fully scalable and highly available production environments deployed across multiple regions on **AWS**, managed in **Terraform**. The final phase of this work involved migrating each legacy stack onto the new infrastructure with minimal downtime.

In addition to the backend work, I was working closely with the mobile team to ensure a smooth transition with no disruption to customer apps, at times contributing code to both the **iOS** and **Android** codebases to support the new infrastructure.

Electric Putty Oct 2017 – Nov 2017

Upgrade work and new features for a **Laravel** application, an online tool for charities to produce marketing materials within brand guidelines. Modified the **jQuery** front-end for uploading, selecting, and cropping images. Integrated **Single Sign-On** solutions to allow external authentication to the app.

Mediablaze Oct 2016 – July 2017

Rebuild of websites for a nationwide chain of leisure centres, replacing old monolithic codebase with multiple discrete web apps to improve stability and performance. I developed an **API** in **Laravel 5** used by a ReactJS frontend, **Wordpress** plugins and also third party developers. Integration with payment gateway and several third party APIs to synchronise user data. Use of **Ansible** to provision highly scalable **AWS** infrastructure.

## Domino Recording Company Jun 2016 – Aug 2016

Updates to the MP3 delivery system (see May 2015 below) to include audio watermarking capabilities. Browser-based streaming audio player using **jQuery**.

## Grampy Sep 2014 – Mar 2015, Oct 2015 – May 2016

Lead developer on multi-site project for Middle East theme parks operator.

Bespoke **Laravel 5** application for travel agent ticket sales, interfacing with legacy on-site ticketing system (via **SOAP API**). Multiple user levels & permissions. Email notifications. **CRM** integration. Payment gateway.

Bootstrap-based front-end with customised component library.

API layer in the **Laravel** app to interface with **WordPress** plugin to power public ticket sales.

Server admin and infrastructure on **Azure** platform – **Ubuntu, nginx, MySQL**, load-balancing.

Server provisioning with **Ansible**.

## Domino Recording Company May 2015 – Aug 2015

Data migration project in **Laravel 5**, moving audio recordings catalogue from legacy 3<sup>rd</sup> party system into new in-house system. **CLI** tools and custom **ORM** layer to interact with different data schemas.

Built tools for generating and delivering MP3 downloads to end users (via online store frontend) and to journalists and internal users (via admin frontend). Including artwork image manipulation, and embedding MP3 metadata with **ffmpeg**.

## School Tie Networks Apr-Sep 2014, Jan-Feb 2015

Built an API using the **Laravel** framework to power mobile apps and a web dashboard (both in **AngularJS**). Server build and general sysadmin for the API server (**Ubuntu, nginx, MySQL, PHP**) on **Rackspace Cloud** infrastructure.

The backend integrates with third party Management Information Systems used by schools nationwide. Their XML data is processed and imported into our system's database, to be output through our API.

## Rumpus Room Sep-Nov 2013, May 2013

Fully **responsive** front end build for LewisHamilton.com, including custom photo & video galleries using **jQuery, CSS3, HTML5 video**. Integration of multiple social media channels.

Rich interactive photo gallery for fashion range launch, using **jQuery, Canvas** and **CSS3**. Fully **responsive** across mobile and tablet. Featured on Selfridges.com homepage.

## Four Communications Jun-Aug 2013, Aug 2010-Feb 2011

Welsh tourism site built with **Drupal**, including custom themes and plugins.

Tech lead on a range of projects for multiple clients, in particular a large government project designed and built to the highest **accessibility, security** and **usability** standards. The **CMS** included bi-lingual capability, audio/video upload features and social media integration (**Twitter, Flickr, YouTube**). I was regularly involved in all aspects of projects, taking **Photoshop** designs through to build stage, database design, application logic and front-end **CSS & jQuery**. The role also required a large amount of server administration (**Linux, Apache, MySQL, PHP**), as well as dealing directly with the client on a daily basis.

## Pirata Jan-Feb 2013, Apr-Jun 2012, Feb 2012, Sep-Oct 2011

Front-end build for **McLaren Formula 1** site. Custom photo & video gallery with **jQuery**, fully **responsive** across desktop, mobile and tablet.

Customised CMS in **CodeIgniter** to power multiple microsites for McLaren Automotive - features include photo/video upload, cropping and watermarking, storage backed by **Rackspace Cloud**, **JSON** feeds of content for use by JavaScript front end. Multilingual capabilities.

Built an API in **CodeIgniter** for consumption by a Flash front end. A global Facebook campaign (Nike Football), deployed across 19 countries and in 14 different languages. Also included background data processing for generating stats and graphs.

### 3 Monkeys Communications Sep-Nov 2012

Bespoke in-house system for tracking media contacts, with automatic tracking of API data from **Twitter**, **Facebook**, **YouTube**, **Instagram**, **Pinterest**, **LinkedIn** and more. All back-end, DB design, and front-end development, working from **Photoshop** designs.

### Exposure May-Aug 2011, May-Jun 2010

Built a back-end system in **CakePHP** for nationwide summer marketing campaign (Bulmers Cider), which powered multiple Facebook apps, iOS and Android apps, as well as mobile and desktop versions of the main brand website.

Included **CMS** interface for the client to manage all aspects of the campaign content. I also worked on the front-end of the **Facebook apps** and Desktop site. The system integrated with other external APIs: **Twitter**, **YouTube**, **UseYourLocal**, **Google Maps**.

Built and deployed numerous other small **Facebook apps** for major brands.

### Sunday Publishing Mar-May 2010

Back-end of a subscription-based multimedia website, built in **CakePHP** (WW2history.com). User login and registration system for controlling access to premium content. Integration with payment gateway (RBS WorldPay), and a voucher-based subscription feature for granting access to large groups of users. Reporting and **CMS** facilities for site administrators.

### 3D Made Easy May 2009-Mar 2010

Full design & build of a subscription-based video streaming platform for schools, built on **AWS** infrastructure (**EC2**, **S3**) in the **CakePHP** framework. Provides access to video tutorials (**Flash video** streaming) for various 3D modelling software packages. Full **CMS** featuring user & subscription management, video and photo uploads, booking system for on-site training.

### Citigroup Aug 2004-Mar 2008

Lead developer on an intranet web application, used by hundreds of users across several countries globally. Involved in all aspects from design and development through to deployment and production support. Core skills required: **Java**, **JSP**, **SQL (Sybase)**, **UNIX (Solaris)**, **HTML**, **CSS**, **Javascript** and **XML**. The modular nature of the application meant managing several sub-projects simultaneously. I worked to improve the development environment within the team, and introduced the use of **Ant** and **Subversion**.

## Education

### SAE Institute Aug 2006-May 2008

Diploma in Audio Engineering

### University of Glasgow Oct 2000-Jul 2004

Bsc. (Hons) Software Engineering, Upper Second Class