

# Dominic Arkwright | CV

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## Overview

Having started working professionally on the web in 1996, I've built up experience of the whole process, from infrastructure, through system administration, API definition, web application design to front-end creation, including graphic design concerns.

SysAdmin	Back End	Front End
Linux Virtualisation Apache / Nginx MySQL / MongoDB	PHP Perl REST Ecommerce	HTML CSS Javascript Photoshop

## Professional experience

### Freelance

Clients from UK, Europe, USA

Barcelona

2005-10 – present

AngularJS Apache API consumption Bash CSS Debian Ecommerce Go HTML Javascript JQuery Linux MongoDB  
MySQL Nginx Perl scripting PHP Proxmox REST API design SCSS Shell scripting System administration Virtualisation  
VMWare Web application design

Since I made the move to be completely freelance, I've worked with clients from USA, UK, Spain and other countries. The services I've provided have included everything from system administration to design.

Front-end development has involved everything from templating systems for my own applications, to working alongside Ruby and Java developers remotely. I'll sometimes use a framework like Bootstrap, sometimes writing or customising the theme, but mostly I prefer to keep the client-side as light as possible.

I've designed web applications using various PHP frameworks. Most current work is based on the Fat-Free Framework, which I find is a very nice balance between leaving design decisions up to the developer and providing a sufficiently useful base to work from. Some of these applications are based on communicating with multiple APIs. Some of the applications I've developed or worked on are themselves REST APIs.

In addition to PHP applications, I've developed AngularJS applications for smooth content management. Other JavaScript work involves using build setups and dependency management systems including Bower, Grunt, npm, Yarn and Webpack. With respect to build systems, I've settled on using the backend to build both the CSS and Javascript with server-side caching to reduce the load and speed. This removes any compilation from the development environment.

On the server-side, I extensively use bash or Perl scripts to automate tasks or transform incoming data, whether it's XML, JSON, CSV, or to consume remote APIs to populate databases. Usually I work with MongoDB for most of my database needs. I have plenty of experience with MySQL (and MariaDB), but usually work with it only in existing or legacy applications. This might be utilities I created before I began using Mongo, or 3rd-party or open source applications like Wordpress, which I have installed and managed for clients on various occasions (although the latter is best managed with wp-cli.)

More recently I've started building utilities in Go as well as porting some of the existing utils in the library, mainly for performance purposes. I'm also in the process of rebuilding a couple of main internal REST APIs in Go, again largely for performance reasons.

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Up until relatively recently many of the servers I've worked with were dedicated machines with virtualisation – Proxmox or VMWare – to allow for addition and customisation of hosts for specific tasks.

In the last couple of years, however, I've increasingly moved to working with cloud providers for even more agility and flexibility, and generally all new projects are built on cloud instances.

## VP Technology

### Polyphonic HMI

#### Sant Cugat

2002-10 – 2003-10

Apache   API consumption   Bash   CSS   Javascript   Linux   MySQL   Perl scripting   PHP   Shell scripting   System administration  
XHTML

Polyphonic created algorithms for music analysis and classification. Based on artificial intelligence, commonalities in music are recognised from a spread of parameters, which was then used for various tasks, such as playlist creation. Another application of the technology was to assist in prediction of possible commercial success of new music.

## Technical Director

### Yahecho

#### Barcelona

2001-08 – 2002-10

Apache   Bash   CSS   Javascript   Linux   MySQL   Perl scripting   PHP   Shell scripting   System administration   Web application design  
XHTML

I set up Yahecho with a colleague as an outsourcing company and web consultancy.

## Technical Team Leader

### Good Technology

#### Barcelona

1999-10 – 2001-08

Bash   CSS   Ecommerce   HTML   Javascript   JSP   Linux   MySQL   Oracle   Perl scripting   Shell scripting   Zeus

I was asked to set up a branch of Good Technology in Barcelona, to better service their client Chupa Chups as well as explore new business locally.

## Technical Manager

### iCrunch.com

#### London

1999-07 – 1999-10

Apache   Bash   CSS   Ecommerce   HTML   Javascript   Linux   mod\_perl   MySQL   Perl scripting   Shell scripting  
Web application design

iCrunch (starting as crunch.co.uk) was the first online shop for MP3 music in Europe. My role was to get the site running, listing the inventory and linking up the ecommerce.

## Telematics Consultant

## Technical Consultant

### WS Atkins

#### Manchester

1998-10 – 1999-07

Apache Bash Linux Perl scripting Shell scripting

My tasks at WS Atkins included anything related to internet, such as setting up and running Apache hosts.

### Programmer

#### AutoTrader

#### Warrington

1998-08 – 1998-10

Apache Bash IIS Linux MSSQL MySQL Perl scripting Shell scripting Solaris

I worked with AutoTrader on contract to bring Perl and Linux experience - their team was exclusively Windows-based at the time. Much of my work here was creating "glue" scripts to transform data and link up different systems.

### Technical Director

#### Doctor Net

#### Manchester

1997-07 – 1998-08

Apache Bash CSS DHTML Ecommerce FreeBSD Javascript Linux MySQL Perl scripting Perl/CGI Shell scripting

System administration

I joined Doctor Net as the company was launched with the task of dealing with all production aspects.

### Web Designer

#### Good Technology

#### London

1996-07 – 1997-07

Apache Bash CSS DHTML Ecommerce Flash Javascript Linux Perl scripting Perl/CGI PHP RealMedia Solaris

I started at Good Technology in Ladbrooke Grove working with large clients like Mini, EMI and other brands. My main task was front-end development and design. At the time, of course, front-end development mostly *was* design!

### Web Builder

#### The British Council

#### Manchester

1996-06 – 1996-07

Apache DHTML Perl/CGI Solaris

I had previously worked at the British Council in various temporary work contracts. When the Manchester office was put in charge of setting up the worldwide online presence, I was contacted to help them with the web building part of this task. In the process I assisted with the configuration of the on-premises web server, a Sun box with the then-new Apache HTTPd 1.0.

# Academic experience

## Video, Imaging and Communication Technology

### Salford University

1993-10 - 1996-06

C Programming   Filmmaking   Multimedia   Recording studio techniques   Sound recording   Video editing   VR

This degree course was started in 1993 to provide a grounding in the emerging area of virtual reality. Subjects of study included both the hardware and the software involved in VR, telepresence, augmented reality and more. This was also when I first had hands-on experience of Unix and C.

## Professional Audio Systems

### Salford University

1989-09 - 1991-06

Acoustics   Filmmaking   Recording studio techniques   Sound recording   Video editing

This National Diploma course was based heavily around studio recording, along with a deeper look at everything from the electronics of audio systems to acoustics theory. Alongside the audio and music, video production was included.

Updated 2022-10-05