

# Filipe A Moreira

Based in Bracknell, UK.	filipe@coderelax.com
github.com/filipeamoreira	@coderelax

---

I thrive in solving business problems in a simple, elegant, and effective way.

## Senior Full Stack Developer (Freelance/Contract)

**TuskerDirect (www.tuskerdirect.com) - London, UK 2019 November - Present**

I was hired as a performance optimisation specialist to analyse the applications and propose and implement performance improvements.

My work focused on the following performance areas:

- Architecture improvements: My suggestions involved splitting the background job server (running Sidekiq) from the main application server to increase throughput of the jobs. I also delivered optimisation changes that generated a 3x speed increase in the execution of these background jobs.
- Infrastructure improvements: The monolith application was hosted on AWS EC2 and used RDS (PostgreSQL) and ElastiCache (Redis). An analysis was done on their hosting infrastructure and suggestions made to better utilise the resources, scaling up when needed (e.g. AWS RDS servers) and slimming down the usage of resources for under utilised server. This was based on a deep analysis of the application and database usage.
- Application improvements: The performance analysis yielded many areas of improvements such as 1) increase and better usage of Ruby on Rails caching, 2) fixing and removal of tens of N+1 queries, 3) lowering the amount of allocated Ruby objects, 4) database (PostgreSQL) query optimisation.

Technologies: Ruby (ruby-prof, stackprof, rbtrace), Rails, JavaScript, PostgreSQL, AWS (EC2, RDS, ElastiCache), Devops, CircleCI, Ansible

**FDJGS (Formerly LVS) (www.fdj-gaming-solutions.com/) - London, UK 2017 June - 2019 October**

My role as senior full-stack software developer encompasses the following areas:

- Ruby on Rails development work – My work covers the development of new features for the internal Ruby based framework that powers multiple client websites. I'm also responsible for the general improvement and maintenance of the codebase.
- JavaScript React work – I am involved in an ambitious project that aim to transform the core frontend framework from a Ruby based solution to a series of React widgets.
- Devops work – In this area I have containerised multiple applications and set up an automated Jenkins pipeline that covers the testing and deployment process.

Technologies: Ruby on Rails, JavaScript, React, Docker, Devops, Jenkins.

### **K3 Integrations (k3integrations.com) - USA (remote) 2013 Sep - 2017 May**

In partnership with K3 Integrations I've worked on a wide range of projects. Highlights includes:

#### ***Ecommerce platform (Voice of Prophecy)***

Completed a full restructure and redevelopment of the current system which included:

- Upgrade old system based on Rails 1 and Spree.
- Integrate new system with UPS api as well credit card payment processor.
- Responsible for cloud deployment on Rackspace.

Technologies: Ruby on Rails, Spree, HTML, CSS, Javascript, MySQL, RSpec.

#### ***Employee timesheet management (Adventist Media Center)***

I was responsible for a timesheet management system needed for a US corporation with employees in around five different timezones.

- Support for a complex overtime calculation based on the geographic location of the employee.
- Support for correct timezone related time entries on both employee level and management level.
- We delivered the application with full testing suite to increase confidence.

Technologies: Ruby on Rails, HTML, CSS, JavaScript, CoffeeScript, Haml, Sass, MySQL, jQuery, Cucumber.

#### ***Advanced CMS system for churches and organisations worldwide (netAdventist)***

I was part of a four person team that did an upgrade for this large application from Rails 2 to Rails 3.

- I was responsible for architecting the l18n translation component which included an external application used for text translation.
- The integration included devising an automated way to extract translatable phrases from the codebase to be used within the new system.
- Developed new feature enabling release of beta versions of the application to selected staging servers which were used for general testing.
- Provided continued support and enhancements for the system.

Technologies: Ruby on Rails, HTML, CSS, JavaScript, CoffeeScript, MySQL, jQuery, Prototype, RSpec, Cucumber.

### **Resolver LTD (www.resolver.co.uk) - London, UK 2013 May - 2014 Jan**

Was part of a two-person team that helped complete a full redesign of the Resolver application. It included new functionality added including the main feature related to PPI claims.

Technologies: Ruby on Rails, HTML, CSS, JavaScript, CoffeeScript, MySQL, jQuery, Sidekick, RSpec, Cucumber.

### **NAD Education - USA (remote) 2012 Jan - 2013 Mar**

Employee management and centralised hub for permissions access (NAD Education). I was the sole responsible for building a web app to manage employee access permissions to other web applications used inside the organisation.

- Devised a simple way to define, extend and check for access permissions within a variety of roles and security levels.

Technologies: Ruby on Rails, HTML, CSS, Haml, JavaScript, CoffeeScript, Sass, MySQL, jQuery, RSpec, Cucumber.

### Supertouch ([www.supertouch.com](http://www.supertouch.com)) - Brentwood, UK 2009 Sep - Oct 2011

Developed an intranet application that helped Supertouch sales managers find relevant and useful information more easily. I was the sole developer for this tool.

The intranet has the following modules:

- Sales dashboard – with realtime information on daily sales.
- Customer profile – information on latest orders, credit limits and ability to email customer invoices and delivery notes.
- Buying trends – ability to see buying trends across different time periods helping with buying and marketing decisions.

Technologies: Rails, HTML, CSS, JavaScript, CoffeeScript, MongoDB, jQuery, Redis

## Other Experience

- Ecommerce application built with PHP/Magento.
- Educational Maths and English online games targeting primary school children (Rails/JavaScript).
- Corporate website built with PHP/Wordpress.
- Google Adwords ad creation engine built using Ruby (Sinatra, Google Adwords API).
- Math learning tool built using JavaScript (Raphaël.js).

## Skills

<b>Open Source</b>	I'm a long time user of Open Source software and a small time contributor as well. See <a href="https://github.com/filipeamoreira">github.com/filipeamoreira</a> for more details.
<b>Programming Languages</b>	<b>Ruby, JavaScript</b> , PHP, HTML/CSS, SQL Familiarity with: <b>Node.js, Go, Elixir</b> , Python, Bash, Clojure, C, Java
<b>Frameworks/Libraries</b>	<b>Ruby on Rails</b> , Sinatra, Wordpress (PHP), Spree (Ruby), Magento (PHP),
<b>Frontend</b>	<b>React, ES6</b> , jQuery, Backbone.js, Raphaël.js, CoffeeScript
<b>DevOps</b>	<b>Docker, CI/CD (Jenkins, CircleCI), AWS, Heroku, Ansible, Capistrano</b> , Chef, Puppet
<b>Data Storage</b>	<b>PostgreSQL, Redis</b> , MySQL, MongoDB
<b>Tools</b>	<b>Git, Emacs</b>
<b>Testing</b>	<b>Rspec, MiniTest, Jest, Karma, Cucumber, Jasmine</b>

## Education

- 2016-2019**      **MA Religious Studies**; University of Wales Trinity Saint David (UK)
- 2012-2016**      **BA (Hons), Theology**; Newbold College (UK)
- 2006-2008**      **FP: Desarrollo de Aplicaciones Informáticas** (Software development); IES El Lago, Madrid (Spain)

## Extra information

- Human Languages:
  - Portuguese (mother tongue)
  - Spanish (fluent)

---

[filipe@coderelax.com](mailto:filipe@coderelax.com) • [@coderelax](https://twitter.com/coderelax)