Filipe A Moreira

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

▬▬▬▬ Senior Full Stack Developer

FutureLearn (www.futurelearn.com) - London (remote), UK 2020 April - Present

Working with the team responsible for the publicly facing learner pages. Some responsibilities include:

- Migrate legacy views to React
- Performance optimisation
- Migrate JavaScript based code to TypeScript
- Helped launch new flagship product: ExpertTracks

Tech stack: Ruby, Rails, TypeScript, JavaScript, React, RSpec, Jest, Go, Mysql, AWS, Terraform, Docker

TuskerDirect (www.tuskerdirect.com) - London, UK 2019 November - 2020 February

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: Suggestions involved splitting background job server 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.

Tech stack: Ruby (ruby-prof, stackprof, rbtrace, rbspy), Rails, JavaScript, PostgreSQL, AWS EC2, AWS RDS, AWS ElastiCache, Docker, DevOps, CircleCI, Ansible

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

Worked as a senior full-stack developer and DevOps specialist doing Ruby on Rails development work, including a massive upgrade of seven applications and over 40 gems to Ruby (2.5.3) and Rails (5.2.3). Also built React widgets for a new frontend framework.

Did extensive work to modernise the DevOps infrastructure of the company being the leader and the person responsible for implementation of a new CI platform, offering parallel building pipeline and containerised applications across multiple projects.

Tech stack: Ruby on Rails, JavaScript, React, Docker, DevOps, Jenkins, CI.

K3 Integrations (k3integrations.com) - USA (remote) 2012 Jan - 2017 May

Worked as a Full Stack developer on a wide range of projects including an ecommerce platform, timesheet management system, advanced CMS system used by thousands of corporate clients globally, and an employee management system with single sign-on.

Tech stack: Ruby on Rails, Spree, HTML, CSS, Javascript, CoffeeScript, jQuery, MySQL, RSpec, Cucumber.

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

Worked as a Full Stack developer as part of a two-person team implementing the complete redesign of the premier complaint system in the UK.

Tech stack: Ruby on Rails, HTML, CSS, JavaScript, CoffeeScript, MySQL, jQuery, Sidekik, RSpec, Cucumber.

Supertouch (www.supertouch.com) - Brentwood, UK 2009 Sep - Oct 2011

Designed and developed an intranet application with a strong sales focus that supported employees find relevant and useful information to better do their jobs.

Tech stack: Ruby, Sinatra, 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).

Education

2016-2019   **MA Religious Studies**; University of Wales Trinity Saint David (UK)

2012-2016   **BA (Hons), Theology**; Newbold College (UK)

Extra information

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