Ryan Stenhouse BSc ZCE

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Hi there! I'm an experienced full-stack engineer with a particular fondness for **Ruby** and an excellent working knowledge of **Rails**. I've experience with **mobile** and **desktop** development for multiple platforms. I'm **agile**, **test-driven** and a **team player** who loves to **mentor** and share knowledge.

Education

BSc Computing (Dist) **2004**
University of Abertay Dundee

HND Software Engineering, **2002**
Fife College, Kirkcaldy

Certification

i-to-i Online TEFL **2006**

Zend Certified Engineer **2006**

Selected Projects

prawn-graph, **2010 - Present**
Simple graphing for PDF documents.
Released as a Ruby Gem.

gpgr, **2010 - Present**
GPG encryption and key management.
Released as a Ruby Gem.

github.com/**HHRy**

uk.linkedin.com/in/
ryanstenhouse

twitter.com/**ryanstenhouse**

Currently lives and works in **Tokyo, Japan**.

Especially interested in **remote work**.

Selected Experience

Senior Software Engineer (R&D): Allm Inc, Shibuya, Tokyo — **09 / 2014 - Present**

I'm the technical lead of our retail business intelligence platform. As well as working closely with our teams worldwide to coordinate development, I set our team's goals, mentor junior developers and work hands-on in all areas of our platform.

The main application is a Rails API which is backed by a RethinkDB cluster and a MySQL/Galera cluster with an OLAP / star schema for handling dimensional data. The front-end of the application is written in AngularJS. Other microservices which make up the platform are written in a mixture of Ruby and Golang.

I continually work towards ensuring the back-end and front-end components are highly resilient and responsive, as it must cope with a load of thousands of requests per minute.

Testing is done with a mixture of GoTest, RSpec and Test::Unit. Front-end components are tested with Jasmine.

I'm currently building a replacement using InfluxDB to store our time-series data. The challenge is dealing with aggregating data for comparison across multiple time zones.

I built the internal tools we use to manage the day-to-day running of the overall application, including creating new instances, handling complicated data migrations across our cluster, tracking issues and monitoring the connectivity of the thousands of sensors which feed data to the platform.

Managing Director: The Happy Geek Ltd, Edinburgh — **2010 - 2014**

As a development consultancy company, I worked on in-house products ranging from conference management software to financial tools and integrations with 3rd party APIs / tools. Contracting work was carried out for clients all over the world, primarily in Ruby, but also in PHP, Javascript, and occasionally Python.

Through my company, I also organised Converge, Scotland's first all-of-industry technology conference. It run for two years and was a great way to contribute back to the community and share knowledge.

Senior Engineer: TicToc, Glasgow — **2013 - 2014**

My primary focus at tictoc was on back-end development using (mostly) Ruby and looking after our servers, including establishing configuration management with Chef. As a senior engineer, an important part of my role was to coach and mentor the more junior members of the team and I aimed to encourage an open, friendly environment of collaboration.

Ruby Engineer: FreeAgent Ltd, Edinburgh — **2011 - 2013**

The FreeAgent accounting application was a vast and complicated Rails application, and one of my proudest achievements was working on upgrading the many years old codebase to use Rails 3 and Ruby 1.9.2 - a process which tested my knowledge and understanding of the different versions of Rails and the Ruby interpreter.

Skills

Ruby, Rails, Javascript, Coffescript, ES6, Golang, Angular JS, SQL, Git, RSpec, Shoulda, Jasmine. OWASP, PCI DSS, SAML. MySQL, PostGreSQL, RethinkDB, InfluxDB

Languages

English, Scots (Native level)
French, Japanese (Limited working proficiency).

Selected Experience

Ruby Engineer: FreeAgent Ltd (continued)

After the successful upgrade, which required auditing and extending our test suite to ensure comprehensive coverage, I went on to lead the Accounts Engineering team. Here I was responsible for looking after the accounting engine, which is the heart of the application. Our team's primary goals were to ensure that all book-keeping entries were correct and reliable. As part of my role, my responsibilities included speccing, defining and developing new accounting features, liaising with our support and support engineering teams to prioritise bug fixes, and monitoring for data integrity issues.

I also had the opportunity to extend our existing SAML integration, as part of implementing a bank transaction importer, from one of the UK's biggest banks.

I was also part of the developer support rota, spending a week a month helping our customers through our Zendesk. It was a great way to really understand the impact my work had on our over 30,000 customers.

Software Engineer: PCCL, Dunfermline — 2007 - 2011

I developed secure web applications and tools of a financial nature for public and private sector organisations, including UK Government departments and household-name payment card brands. Some of the customer facing applications had web interfaces developed using Rails.

My primary focus was on our flagship "management information" application, which helped organisations track their spent and allocate payments on Government Procurement Card. The application had to be resilient and always available.

In addition to this, I was responsible for the design and implementation of my department's PCI DSS (Payment Card Industry Data Security Standard) compliant technical infrastructure. Working within our two-man PCI Team, my implementation and integration with our applications allowed the company to become a PCI DSS Level 1 compliant service provider.

As part of my responsibilities; I became expert on the recommendations of OWASP (the Open Web Application Security Project) and apply best security practices to all development work.

Public Speaking

I've spoken at several technology conferences across Europe, selected highlights are below. More details can be found at https://talks.ryanstenhouse.jp .

- Scottish Ruby Conference 2011 - "These are not the credit cards you are looking for"
- Scottish Ruby Conference 2012 - "How we learn a language"
- ArrCamp 2012 - "Cultured Localisation"
- ArrCamp 2013 - "Écouter et répéter is so last century"
- Scottish Ruby User Group - Various
  - PDF Madness
  - Twillio
  - Rails' i18n

Availability

Available for the right opportunity subject to a 1-month notice period.