

PATRICK KING

Full-stack web developer in Ruby on Rails + React + Node.js

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This Resume:
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OBJECTIVE

Further my breadth and depth of skills in server and client development, and expand into cloud and devops.

EXPERIENCE

Hacquity - Hacking Gender Equity Hackathon - May to Sept 2018

DoM Citizen ([Github](https://github.com)) 2018

Ruby on Rails PostgreSQL S3 Google Docs API Email (Sendgrid + Mailgun) Heroku

Role: Lead Developer - Challenges: As part of an extended hackathon I built DoM (Department of Medicine) Citizen, a prototype community portal for physicians in Calgary. This rails app has features for sharing and reviewing trusted service providers, uploading and searching resumes, and connecting with potential mentors. Trying my hand at some new cloud APIs was interesting, and as the webapp is part of a larger initiative to study barriers to gender equity in medicine, I had the opportunity to help facilitate a workshop about the site and present it to potential users there. Working alone to deliver some intricate features, I opted to limit complexity and simulate a single-page app experience with turbolinks. I built a fast and responsive site with virtually no javascript.

VizworX Inc. - March 2013 to Present

Ivrnet Central - 2016

Ruby on Rails Rspec Docker PostgreSQL

Role: Developer - Challenges: This was a short engagement with another Calgary software company to support their development team; the main challenge was to drop into an unfamiliar Rails codebase and make worthwhile contributions during the six week span, while also learning the basics of Docker.

WeEmploy - 2014

Ruby on Rails PostgreSQL Rspec Sunspot Solr + Lucene

Role: Developer - Challenges: The application concerned an online job board, and one notable challenge was designing a search system integrating Rails and Solr for matching candidates to jobs based on skills and other traits. The client brought their own design team with some ambitious ideas, which demanded solid client facing abilities and presented some interesting HTML/CSS implementation challenges.

Jobbsite - 2013 to 2015

Ruby on Rails PostgreSQL Rspec Cucumber Phantom.js Selenium Paperclip Prawn
Ampersand.js

Role: Developer - Challenges: I began on Jobbsite as a junior developer working under a talented senior to build a custom time and order management system for a client, and ended as a leading developer on a larger team adapting the software to serve as a SAAS product. There were numerous challenges over the years, including onboarding additional junior devs, adding a rich client experience using a browser toolkit called Ampersand.js, the Rails 3 to 4 upgrade, a continuous need

to optimize the speed of a sprawling test suite, balancing the needs of the client vs. the needs of the product, and implementing a reliable multi-tenant database system.

Agile Software Engineering Lab, University of Calgary (Dr. Frank Maurer) - May 2011 to February 2013

NSERC Surfnets Research Network Page - 2013

Ruby on Rails PostgreSQL Paperclip

Role: Lead Developer - Challenges: My last task with Dr. Maurer's lab was to implement a website to document the work of the Surfnets research network, where network members could log in and upload descriptions and papers detailing their projects. This was my first Ruby on Rails project. Effectively, I attempted to learn Rails and implement a simple CMS on my own in two months, and in retrospect this goal was entirely too ambitious. Not knowing this at the time, I made a serious attempt to complete it. I learned a lot while building a substantial portion of the site, before handing it off to another intern.

EDUCATION

BHSc - Bioinformatics (Honours) - University of Calgary - 2012

Honours Thesis: *An Algorithm for Chromatin Immunoprecipitation Sequencing Analysis.* Python R

SKILLS + TECH

What I'm Best At

React.js Node.js Ruby on Rails RSpec Cucumber Javascript (ES 2015+) ESLint Coffeescript
Immutable.js Redux + Mobx + Flux Git (CLI + Git Flow) D3.js Agile practices jQuery
Promises + Bluebird.js

What I'm Good At

Webpack PostgreSQL IIS Phantom.js Python C# + .NET (Web and Windows desktop)
WebGL + Three.js Team Foundation Version Control (TFS) Leaflet Browserify Heroku
ArcGIS (APIs + SDKs + server configuration) Prawn French (Written + Spoken)

What I've Played With

S3 Google Docs API Email (Sendgrid + Mailgun) Java + Android Objective-C + iOS Docker
Sunspot Solr + Lucene R MongoDB Go Ember.js MSBuild Ampersand.js GLSL (with WebGL)
Puppet Meteor.js LSL (Second Life) Drupal SQL Server (TSQL) C + C++ Django Kinect Blender
Selenium

OTHER WORKS

Accessible Visualizations: A Case Study (slides) - I presented work on making the Energy Futures visualization accessible, as part of the our design partner's **Data Empowerment Speaker Series.**

"Star Trek: Armada" Gallery - A shrine for an old computer game I enjoyed.

Coffeescript Node.js Three.js WebGL

Neoderelict - A simple prototype browser game.

Coffeescript Three.js WebGL Blender

References available on request