

PATRICK KING

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

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Calgary, Canada
This Resume: patrickking.github.io

RECENT EXPERIENCE

Hacquity – Hacking Gender Equity Hackathon – May to Sept 2018

DoM Citizen ([Github](#)) 2018

Ruby On Rails Postgres SQL 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

[Imports & Exports of Energy Products to and from Canada NEB](#) ([Github](#)) – 2017 to 2018

React.js Immutable.js Redux Webpack IIS

Role: Consulting Developer – **Challenges:** While transitioning out of the company, I bootstrapped this new visualization and assisted with scoping and estimation before handing it off to the team. The main challenge was to offload and document all of the knowledge I had built up of the client and our projects. Keeping up with code review also became interesting, as I was no longer the author of any of code, and had less frequent contact with the team over time.

[Pipeline Incidents \(NEB\) \(Github\)](#) 2017

React.js Immutable.js Redux Webpack IIS Node.js

Role: Lead Developer – **Challenges:** I onboarded a new junior developer, while transitioning the team to a new React based stack, while delivering a complex browser data visualization app under a tight deadline. My organizational skills, time management, client interfacing and detail orientation were tested on this project! We delivered the app successfully and on time, with a limited amount of overtime. I lead the adoption of code review as a practice at Vizworx during this project.

[Exploring Canada's Energy Future \(NEB\) \(Github\)](#) – 2016 to 2017

Coffeescript Browserify D3.js IIS Node.js Phantom.js

Role: Lead Developer – **Challenges:** I stepped into this project after it was already underway. As a pilot project for this client we had wide latitude in our choices of technology and approach, but we had to deliver this browser based visualization under tight deadlines and with limited access to the client's hosting environment. Challenges included building the app with tools not well suited to browser app development (D3 especially), integrating Node.js applications into an IIS hosting environment, and interfacing with an external design team and external client staff. With our partners focused on the design of the visualization, ensuring that non-design related concerns were considered and scoped was also a challenge.

EDUCATION

BHSc – *Bioinformatics (Honours)* – University of Calgary – 2012

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 WebGL + Three.js

[Neoderelict](#) – A simple prototype browser game.

Coffeescript WebGL + Three.js Blender

References available on request – Full CV at patrickking.github.io