PATRICK KING

Senior full–stack web developer in Ruby on Rails + React + Node.js

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RECENT EXPERIENCE

Hacquity – Hacking Gender Equity Hackathon – 2018

DoM Citizen (Github) – May to September 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 let me try my hand at some new cloud APIs, 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

Unreleased Rails and React Product – January to April 2019

`React.js` `Webpack` `Immutable.js` `Redux` `React–Router` `Javascript (ES 2015+)` `Three.js` `Ruby On Rails` `Rails API` `Postgres SQL` `RSpec` `Docker` `Matlab` `DICOM` `JWT` `Gitlab CI` `AWS S3` `AWS Elastic Beanstalk` `AWS RDS` `AWS ECS` `AWS Fargate`

Role: Lead Developer – **Challenges:** I returned to Vizworx for a four month engagement to lead a team of three other developers and a part time designer, to build a greenfield medical imaging product. This role had me just where I like to be: with a mix of new and familiar technologies, and with the chance to build the entire stack through browser, server, database, deployment automation, and cloud hosting.

Our customer brought high expectations and limitless feature requests; careful

engagement, prioritization, clear communication, and expectation management were all key to success. One particular challenge was to containerize some specialized Matlab code, and integrate it into a Rails driven job queue. This role brought an opportunity to dive into AWS's family of cloud tools. With a mix of skill levels on the team, structuring work so that junior developers can learn, and make meaningful contributions, and advance overall development, was also an interesting puzzle to solve.

[Imports & Exports of Energy Products](#) (CER) [(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 principal author the code, and had less frequent contact with the team over time.

[Pipeline Incidents](#) (CER) [(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.

EDUCATION

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

OTHER WORKS

I stood as a candidate in Canada's 2019 General Election.

I am fluent in French and English.

[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](#).

References available on request – Full CV at [patrickking.github.io](#)