

BRANDON ZHOU-CHARLES

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WORK EXPERIENCE

SOFTWARE ENGINEERING CO-OP

PagerDuty, Toronto, ON May 2019 - August 2019

- Provisioned an **AWS Memcached** instance using **Terraform** to persist the learner models so that the learner would not have to re-create new models from scratch on service restart.
- Spearheaded developing a timeline component for users to view a list of related incidents using **React** and **Redux**.

DEVOPS ENGINEER CO-OP

Royal Bank of Canada, Toronto, ON September 2018 - April 2019

- Created a suite of **Ansible** roles to provision iOS, Android, and NPM build servers allowing for the task to be automated and run in 2 hours instead of 8 hours of manual effort.
- Migrated build pipelines onto a team-internal instance of **Cloud Jenkins** to allow the team to have complete autonomy over the configuration of Jenkins.

FULL STACK DEVELOPER CO-OP

Environmental Assessment Office, Victoria, BC January 2018 - April 2018

- Wrote unit tests using **Karma**, **Jasmine**, **Istanbul**, and **Angular's TestBed Suite** for Angular modules created to bring branch coverage up from 0% to 80% which resulted in less frequent bugs appearing in production.
- Collaborated with a UX designer to create a platform for users to view, comment, and vote on environmental projects happening in their area using **Angular**, **TypeScript**, and **Node.js**.

WEB DEVELOPER CO-OP

BC Pension Corporation, Victoria, BC May 2017 - August 2017

- Worked in a cross-functional team to develop an app which let users to manage their pre-retirement beneficiaries using **SCSS**, **HTML**, **JavaScript**, and **JSP**.
- Refactored form validation to use the **HTML5 constraint validation API** making data validation on the more robust.

SOFTWARE ENGINEER CO-OP

The Bazaar, Vancouver, BC September 2016 - December 2016

- Worked closely with the CEO to develop a product MVP using **Node.js**, **Express.js**, **Bootstrap**, and **MongoDB**.
- Modernized the marketing page to help potential customers and investors better understand our product.

SKILLS

LANGUAGES

Node.js, TypeScript, JavaScript (ES6), Java, Elixir, Python

WEB DEV

React, Redux, Angular, SCSS, Express, Phoenix, GraphQL

GENERAL

Git, AWS, Terraform, Ansible, Jenkins, Docker, DataDog, MongoDB, Firebase, Heroku

PROJECTS

TOOGLE

API built using **Node.js** and **MongoDB** for managing tasks. The API features CRUD actions and **JWT's** for authentication and authorization.

CRWN CLOTHING

Web application built using **React**, **Redux**, **Node.js**, **Stripe API**, and **Firebase**. Featured **OAuth** authentication, cart manipulation, and the ability to checkout your cart.

CRWN CLOTHING

Node.js CLI tool to help query the web for coding answers so terminal enthusiasts never have to open a browser. Featured code syntax highlighting, paragraph stylings, and parsing of StackOverflow or Medium answers.

EDUCATION

BACHELOR OF SOFTWARE ENGINEERING

University of Victoria

September 2014 - April 2020