

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 efforts
- 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

PROJECTS

TOOGLE - <https://github.com/btzc/toogle>

- Developed a task manager application allowing users to organize and manage upcoming tasks using **JavaScript**, **HTML**, **CSS**, **Node.js**, and **MongoDB**.
- Functionality includes user authentication and authorization using **JWT's**, task creation, deletion, and modification, and also the scheduling of tasks.

CRWN CLOTHING - <https://github.com/btzc/udemy-react-ztm> - <https://crwn-live-btzc.herokuapp.com/>

- Created a clothing marketplace using **React**, **Redux**, **Node.js**, the **Stripe API**, and **Firebase**.
- The app lets users register for an account using either email and password or **OAuth**, add items to a cart, manage items in their cart, and checkout their cart by using the Stripe API.

EDUCATION

BACHELOR OF SOFTWARE ENGINEERING

University of Victoria

September 2014 - April 2020