BRANDON ZHOU-CHARLES

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WORK EXPERIENCE _____

FULL-STACK SOFTWARE ENGINEER

Rewind, Ottawa, ON

July 2020 - Present

- Refactored legacy Stripe and Shopify billing code into Service Objects to remove code duplication and improve unit test coverage using **Ruby** and **RSpec**.
- Created a global navigation drawer using React and Rails to help cross-sell different products for various platforms the company supports.
- Implemented the storing of request and response data from API calls to 3rd parties using AWS Lambda to parse data and S3 to store the data.
- Automated restoring of backed-up Intuit data using Sidekiq and Ruby to remove the need for manual effort.
- Created a Trello power-up to allow users to use our application within an iframe by exposing and securing various API endpoints required for authorization.
- Updated the Shopify API gem and resolved all breaking changes within our application with zero downtime.
- Standardized logging and error across our application by creating a Ruby gem to house logging levels and logic, and defining actions to occur at various logging levels.

SOFTWARE ENGINEER 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.
- Proposed and implemented a disaster recovery plan using feature toggles to launch our service and migrate users from v1 to v2 without disruption.
- 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.
- Created iOS build pipelines using Fastlane to automate building the application and sending it for approval

SKILLS _____

LANGUAGES

Node.js, TypeScript, JavaScript, Java, Elixir, Python, Ruby

WEB DEV

React, Redux, Rails, Angular, SCSS, Express, Phoenix, GraphGL

GENERAL

Git, AWS, Terraform, Ansible, Jenkins, Docker, Kubernetes, Sidekiq, DataDog, MongoDB, Firebase, Heroku, ELK stack

PROJECTS _____

ICARUS

Stock and cryptocurrency sentiment analysis tool built using Docker, Node.js, Express, React, and MongoDB. Used Server-Sent Events for one-way event streaming from server to client to update users as new data came in.

CRWN CLOTHING

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

HALP CLI

Node.js CLI tool to help query the web for coding answers so terminal enthusiastics 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