

Bruce Hong

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Product-minded developer interested in building seamless, impactful products.

EDUCATION

University of Waterloo – Candidate for Bachelor of Computer Science Sept 2017 – Aug 2022

Relevant Coursework: Algorithms • Object-Oriented Software Development • Data Structures and Data Management • Introduction to Artificial Intelligence • Computer Security and Privacy • Information Systems Management

Wilfrid Laurier University – Candidate for Bachelor of Business Administration Sept 2017 – Aug 2022

EXPERIENCE

Tophatter – Full Stack Engineering Intern Sept 2021 – Present

React | Ruby on Rails | PostgreSQL

San Francisco, CA

- Contributing to the development of a browser extension and relevant APIs which scrapes users' webpages for metadata to promote products and affiliate offers based on browsing behaviour

Pencil Learning Technologies – Full Stack Engineering Intern Dec 2020 – July 2021

Angular | Node.js/Express | MongoDB | Firebase | Socket.io | RxJS

San Francisco, CA

- Architected and developed a real-time communication (RTC) interface and a WebRTC protocol implementation to support interchangeable RTC service providers, reducing costs associated with RTC by ~40%
- Developed core features for a real-time collaborative platform such as conflict resolution, user presence, and tools

Pixlee – Full Stack Engineering Intern Jan 2020 – May 2020

Marionette/Backbone.js | Ruby on Rails | PostgreSQL | Redis | jQuery

Toronto, ON

- Optimized several high-traffic REST endpoints which reduced server latency by up to 70%
- Implemented new core features which directly contributed to signing \$10,000+ in ARR during the internship

Secret Mission Software – Software Developer Jan 2019 – Apr 2019

React Native | Redux | MobX | Apollo Client | Django (Rest Framework, Graphene) | Elasticsearch

Toronto, ON

- Led the development of several mobile applications and a search engine POC to meet client requirements
- Refactored REST APIs to GraphQL which reduced average payload size by ~80%

Finastra – Software Developer (R&D) May 2018 – Aug 2018

Node.js/Express | RxJS | NoSQL | Microsoft Azure

Mississauga, ON

- Implemented scalable multi-tenancy in a suite of REST microservices allowing each instance to serve multiple clients
- Created development tools such as custom logging and end-to-end scaffolds to simplify microservice development and eliminate project setup time

PROJECTS

inCite | React, MobX

- Google Chrome extension that scrapes the active webpage to easily generate and save citations to bibliographies

Lo-Fi Generator | Tensorflow, Keras, Google Colab

- Recurrent neural network with long short-term memory trained to generate simple lo-fi music sequences

SKILLS

Languages: JavaScript/TypeScript • C++ • Python • Ruby • HTML/CSS

Tools & Frameworks: React/React Native • Angular • Backbone/Marionette.js • Node.js/Express • Django • Ruby on Rails • Firebase • Git • Linux/Unix