

Bruce Hong

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

SKILLS

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

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

EXPERIENCE

EdTech Stealth Startup — Full Stack Engineering Intern Jan 2021 – Present

[Angular](#) | [Node.js/Express](#) | [MongoDB](#) | [Firebase](#) | [Socket.io](#) | [RxJS](#)

- Architected and developed a real-time communication (RTC) interface and a WebRTC protocol implementation to support interchangeable RTC service providers, reducing the cost of running our core product by ~30%
- Developed key features for real-time collaborative software such as conflict resolution, user presence and tooling

Pixlee — Full Stack Engineering Intern Jan 2020 – May 2020

[Marionette/Backbone.js](#) | [Ruby on Rails](#) | [PostgreSQL](#) | [Redis](#) | [jQuery](#)

- Optimized several high-traffic REST endpoints which reduced server latency by up to 70%
- Implemented UI for new core features which directly contributed to signing \$10,000+ in ARR during the work term
- Implemented client-customizable widget localization with live previews

Secret Mission Software — Software Developer Jan 2019 – Apr 2019

[React Native](#) | [Redux](#) | [MobX](#) | [Apollo Client](#) | [Django \(Rest Framework, Graphene\)](#) | [ElasticSearch](#)

- Led the development of several mobile applications and a search engine POC, broke down projects into pointed tasks, projected and executed on development timelines to meet client deadlines
- Refactored REST APIs to GraphQL which reduced average request size by ~80%

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

[Node.js/Express](#) | [RxJS](#) | [NoSQL](#) | [Microsoft Azure](#)

- Implemented multi-tenancy in a suite of REST microservices allowing each instance to serve multiple clients
- Designed and developed modules such as custom logging to simplify development of microservices
- Coordinated with DevOps to create microservice scaffolds, eliminated project setup by automatically generating microservice templates and associated CI/CD pipelines

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

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