

# Ryan Chang

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## Education

**University of Toronto**

Expected 05/2021

- Bachelor of Science, Computer Science Specialist • Major GPA : 3.55

### Relevant Coursework :

- Multivariable Calculus • Software Design • Computer Organization • Linear Algebra
- Theory of Computation • Systems Programming • Data Structures • Databases

## Experience

**Filament AI** | Software Engineering Intern

07/2020 - 09/2020

- Developed a variety of interactive chatbot functionalities and customized a responsive, WCAG AA compliant chatbot using **Redux** and **React** for a Canadian kids mental health counselling company.
- Implemented numerous front-end **React** components for Pipeline monitoring workflow dashboard and developed email digest compilation **Node.Js** app for a NYC Private Equity fund.

## Programming Skills

- **Languages:** JavaScript, Java, C++/C, HTML, CSS, Verilog HDL
- **Tools/Technologies:** Git, React, Redux, PostgreSQL, Android Studio, Node.Js, Express.js

## Projects

**Bomber Man Android Game** | [Demo](#)

08/2020 - 10/2019

- Designed and developed an Android Game in **Java** using the model view presenter.
- Developed classes with clear responsibilities, employed design patterns and OOP principles to keep codebase extensible and readable.
- Utilized git to monitor changes within the project and learned how to collaborate and communicate with teammates while using git best practices.

**Redflags.io** | [redflagsio.herokuapp.com](https://redflagsio.herokuapp.com)

05/2020 - 06/2020

- Built a multiplayer card game that utilizes Socket.io in **Node.Js** for bidirectional communication between server and clients.
- Developed front end using **React**.

**Drenalin** | [sportnetwork.firebaseio.com](https://sportnetwork.firebaseio.com)

06/2017 - 09/2017

- Independently developed web-based application designed to help athletes meet up, discover and host single day/on-going league based sporting events.
- Utilized **JavaScript** to present real time sport event information using **Firebase**.
- Simplified processes such as joining, discovering and creating sporting events nearby by presenting both a list and map view.

## Interests

- Religiously follow the NBA • Love the outdoors • Food enthusiast