

# Ryan Chang

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## Education

**University of Toronto** 2017 - 2021(Expected)

- 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 2020 - now

- Built and customized responsive and WCAG AA compliant chatbot using **Redux** and **React** for Canadian professional telephone kids counselling company: Kids Help Phone.
- Implemented a variety of interactive dashboard functionalities using **React** for private equity firm: Siris Capital while working with Filament development and product management teams.

## Programming Skills

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

## Projects

Bomber Man Android Game | [Demo](#) 2019 - 2020

- 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) 2020 - now

- 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) 2016 - 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