

# Ryan Chang

+1 647 962 5400 | ryanrz.chang@mail.utoronto.ca | github.com/tyranitar898 | ryanchang.online

## Education

University of Toronto

Expected 05/2021

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

### Relevant Coursework :

- Multivariable Calculus • Software Design • Machine Learning • Operating Systems
- 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 frontend **React** components for investment pipeline monitoring workflow dashboard and developed email digest compilation **Node.Js** app for a NYC private equity fund.

## Programming Skills

- **Languages:** JavaScript, Python, Java, C/C++, Verilog HDL
- **Tools/Technologies:** Git, React, Redux, PostgreSQL, Node.Js, Express, MongoDB, Mongoose, Numpy, Sklearn, Flask, Android Studio.

## Projects

My-NBA | [my-nba.herokuapp.com](https://my-nba.herokuapp.com)

11/2020 - Now

- A full stack web application that explores machine learned based statistical analysis in the NBA.
- Developed **Python** based machine learning backend API using **Sklearn** and **Flask**.

Redflags.IO | [Redflagsio.herokuapp.com](https://redflagsio.herokuapp.com)

05/2020 - 06/2020

- A multiplayer web party card game.
- Utilizes **Socket.io** in **Express** for bidirectional communication between server and clients.
- Implemented frontend using **React** and deployed on Heroku.

RcMeme.Js | [Landing Page](#)

10/2020 - 12/2020

- Canvas based **JavaScript** library used to make create memes that can be embedded in websites.

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

06/2017 - 09/2017

- Independently developed **JavaScript** based web app designed to help athletes meet up, discover and host single day/on-going league based sporting events.

Bomber Man Android Game | [Demo](#)

08/2019 - 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

## Interests

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