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   07/2020 - now

- Developed a variety of interactive chatbot functionalities and customized a responsive, WCAG AA compliant chatbot using **Redux** and **React** for Canadian professional telephone kids counselling company: Kids Help Phone.
- Implemented numerous front-end **React** components for Pipeline monitoring workflow dashboard and developed email digest compilation **Node.Js** app for private equity firm: Siris Capital.

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]   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]   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.firebaseapp.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