

Ryan Chang

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Education

University of Toronto

Expected: 05/2022

Bachelor of Science, Computer Science Specialist

Relevant Coursework :

- Multivariable Calculus • Software Design • Machine Learning • Operating Systems
- Algorithms • Systems Programming • Data Structures • Databases • Web Development

Experience

Meta | Software Engineer

08/2022 - Now

- Incoming Software Engineer

Filament AI | Software Engineering Intern

07/2021 - 11/2021

- Built services in **Node.js** using **Knex.js** to facilitate dataflow between client interface and **MySQL** server, leading to a scalable and maintainable data collection process for an educational platform.
- Implemented **Python** scripts to scrape Twitter and derive insights for private equity investment dashboard.

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 mental health counselling company.
- Implemented several frontend **React** components for investment pipeline monitoring workflow dashboard and developed dynamic email digest compilation **Node.js** app for a private equity fund.

Teaching Assistant | CSC148 Introduction to Computer Science

01/2022 - 05/2022

- Host office hours, help students on in class activities, proctor and grade exams.

Programming Skills

- **Languages:** JavaScript, Python, C/C++, Java
- **Tools/Technologies:** Git, React, Redux, Numpy, Scikit-learn, Flask, Jupyter Notebook, PostgreSQL, Node.js, Express, MongoDB, Mongoose, Android Studio.

Projects

My-NBA | my-nba.herokuapp.com

11/2020 - Now

- Full stack web application built with **Python** and **React** that explores machine learned based statistical analysis on the NBA.
- Independently developed **Python** based machine learning pipeline backend API using **Scikit-learn** and **Flask** to provide analysis to frontend.

Redflags.IO | redflagsio.herokuapp.com

05/2020 - 06/2020

- Multiplayer web party game built with **MERN** stack.
- Utilizes **Socket.io** and **Express** for bidirectional communication between server and clients.