

Benjamin Zhuo

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TECHNICAL SKILLS

Languages: Python, Java, C, SQL, JavaScript, HTML/CSS, R

Frameworks: React, Node.js

Tools: Git

EXPERIENCE

Data Science Co-Op - Thinkdata Works

September 2021 – Present

Toronto, ON

- Utilized **Python** to improve the existing functionality of the **entity resolution** solution offered by Thinkdata.
- Wrote test-driven code to identify and fix errors and used **Github Actions** to enhance the production pipeline.
- Developed data connectors using **Python** libraries such as **Selenium**, **BeautifulSoup**, and **requests** to download and parse information from various data providers.

Webmaster - University of Toronto Emergency First Responders

September 2021 – Present

Toronto, ON

- Maintaining the club website, using **HTML**, **CSS**, and **Bootstrap**.

PROJECTS

Anime Recommendation Model | *Python*

January 2022

- Uses data on anime titles obtained from **MyAnimeList API**.
- Utilizes **term frequency**, **Tf-idf** with **cosine similarity** to find anime recommendations given anime titles.
- Similar but less-accurate recommendations when compared to MyanimeList's own recommendations page.

Pokemon Fusion Guesser | *React, Javascript*

December 2021

- Developed guessing game where user has to guess two Pokemon that make up a Pokemon Fusion image.
- Utilized **React** to develop the front-end components.
- Handled back-end operations and state management using **Javascript**.

DialogFlow Chatbot | *DialogFlow, Node.js, Heroku*

Summer 2020

- Worked with 5 other undergraduate students to develop a chatbot for Ontario Council of Agencies Serving Immigrants using **DialogFlow**.
- Trained Chatbot to answer user questions using Google's NLP framework.
- Directs users to OCASIs forum where many questions are already answered, leading to increase in user retention.
- Implemented fallback intent to perform a custom Google Search of OCASI website in case of unrecognized user response in the form of a webhook implemented with **Node.js**.
- Deployed on **Heroku**.

Weather Bot | *Discord API, OpenWeatherMap API, Node.js, Heroku*

December 2019

- Developed a Discord bot to provide weather information from within the Discord application.
- Created bot using **Discord API** and pulls weather information using **OpenWeatherMap API**.
- Returns weather forecast for next 7 days using Discord embedded text.
- Deployed on **Heroku** and used in a Discord server with 100 members.

Mobile Minis | *Java, XML, Android*

September 2019

- Collaborated with 5 undergraduate students to develop an **Android** gaming application comprised of three structurally distinct mini-games to play, each equipped with its own levels and scoring systems.
- Back-end consists of **Java** and front-end was done through **XML** development.
- Implemented in-game shop feature, allowing users to collect sprites through exchanging in-game currency earned from mini-games.

EDUCATION

University of Toronto

Toronto, ON

Bachelor of Science in Computer Science and Statistics, Minor in Mathematics

Sept. 2018 – May 2022 (Expected)

- Deans List Scholar 2021
- cGPA 3.51/4.00