Benjamin Zhuo

benjamin.zhuo@yahoo.com | linkedin.com/in/benjaminyzhuo | github.com/bnjmnzh

EDUCATION

University of Toronto

Toronto, ON, Canada

BSc. Computer Science (Major), Statistics & Mathematics (Minors)

Sept. 2018 - May 2023 (Expected)

- Relevant Courses: Neural Networks & Deep Learning (Graduate Level), Data Analysis I, Machine Learning I
- **cGPA:** 3.51/4.00
- Honors: Deans List Scholar 2021

TECHNICAL SKILLS

Languages/Tools: Python, SQL, Git, Tableau, R, LATEX, C, Java, HTML, CSS, Javascript Frameworks: PyTorch, NumPy, Pandas, scikit-learn, TensorFlow, Keras, Bootstrap, React

EXPERIENCE

ThinkData Works Inc.

Toronto, ON, Canada

Data Scientist, Data Labs Team (Co-op)

September 2021 - August 2022

- Worked with a team of Data Scientists and Developers, as part of the Data Labs team, to build an core platform solution using ML and NLP for entity resolution.
- Wrote test-driven code, in conjunction with **Github Actions**, to identify and fix errors to enhance the entity-resolution model production pipeline.
- Developed data connectors using Python libraries such as Selenium, BeautifulSoup, and requests to download
 and parse information from various data providers.
- Used **natural language processing** (NLP) techniques to pre-process item-code based data for linear support vector classification, and created data visualizations using **Tableau** based on sales data.

University of Toronto Emergency First Responders

Toronto, ON, Canada

Webmaster

September 2021 – Present

• Used HTML, CSS, and Bootstrap to maintain the club website.

PROJECTS

Anime Recommender System | Python

January 2022

- * Uses data on anime titles, descriptions, and genres 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 a team of 5 undergraduate students to develop a chatbot for Ontario Council of Agencies Serving Immigrants (OCASI) using Google's NLP framework—**DialogFlow**.
- * Increased user retention by directing users to OCASIs forum where many questions are already answered.
- * Implemented fallback intent as a backup to perform a custom Google Searches in case of unrecognized user inputs through 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.

Certificates

• 365 Careers—The Data Science Course 2022: Complete Data Science Bootcamp