Benjamin Zhuo

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EDUCATION

University of Toronto   Toronto, ON
Bachelor of Science in Computer Science, Minor in Mathematics and Statistics   *Sept. 2018 – June 2023*

- **cGPA** 3.38/4.00
- **Relevant Courses**: Intro Software Engineering, Intro Databases, Neural Networks and Deep Learning, Natural Language Computing, Statistical Machine Learning, Methods of Data Analysis
- **Honours**: Deans List Scholar 2020, 2021
- Graduated with distinction

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

Ontario Teacher's Pension Plan   June 2023 – Present
Associate Software Developer   *Toronto, ON*

- Collaborated within an agile team to develop high-quality software systems supporting Member Services strategic initiatives.
- Proficient in **Java**, **JavaScript**, **HTML**, **CSS**, and best software development practices, including testing, code review, and continuous integration.
- Stayed current with technological trends, with exposure to microservices in **Java**, web services, **SQL**, **REST**, and **Spring Boot**, contributing effectively to the team's objectives.

ThinkData Works Inc.   September 2021 – August 2022
Data Science Co-Op   *Toronto, ON*

- Worked with a team of Data Scientists and Developers, as part of the Data Labs team, to build a 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.

PROJECTS

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.