

# Benjamin Zhuo

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## EDUCATION

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### University of Toronto

Toronto, ON

*Bachelor of Science in Computer Science, Minor in Mathematics*

*Sept. 2018 – May 2022 (Expected)*

- **cGPA** 3.47/4.00
- **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

## TECHNICAL SKILLS

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**Languages/Tools:** Python, SQL, Git, Tableau, R, L<sup>A</sup>T<sub>E</sub>X, C, Java, HTML, CSS, Javascript

**Frameworks:** PyTorch, NumPy, Pandas, scikit-learn, TensorFlow, Keras, Bootstrap, React

## EXPERIENCE

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### 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.

### University of Toronto Emergency First Responders

September 2021 - April 2023

*Webmaster*

*Toronto, ON*

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

## PROJECTS

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### 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.

## CERTIFICATES

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