

# Benjamin Zhuo

604-780-7966 | [benjamin.zhuo@yahoo.com](mailto:benjamin.zhuo@yahoo.com) | [linkedin.com/in/benjaminzhuo](https://www.linkedin.com/in/benjaminzhuo) | [github.com/bnjmzhuo](https://github.com/bnjmzhuo)

## TECHNICAL SKILLS

---

**Languages:** Java, Python, SQL, HTML, CSS, Javascript

**Frameworks:** Camunda, Maven, Spring Boot, NumPy, Pandas

**Tools:** Git, Grafana, Prometheus, Dynatrace, Bamboo, Jira, Confluence

## EXPERIENCE

---

### Ontario Teacher's Pension Plan

June 2023 – Present

*Associate Software Developer*

*Toronto, ON*

- Participated actively in the software development cycle including planning, development, testing, and deployment in an agile-environment.
- Upgraded web applications to **Java 17** and **Spring Boot 2.7** to align with industry supported technologies.
- Implemented an automated testing framework to identify performance enhancements in batch jobs.
- Supported process automation and development with **Camunda**.
- Enhanced **Grafana** dashboards with new **Prometheus** metrics to increase monitoring of systems.
- Identified issues with application performance using **Dynatrace** and **Kibana**.

### ThinkData Works Inc.

September 2021 – August 2022

*Data Science Co-Op*

*Toronto, ON*

- 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 (OCASI) using **DialogFlow**.
- Trained Chatbot to answer user questions using Google's NLP framework.
- Directs users to OCASI's 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.

## 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
- **Honours:** Deans List Scholar 2020, 2021
- Graduated with distinction