

Edward Zhuang

SOFTWARE ENGINEER

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Education

McMaster University

Hamilton, ON

B.ENG. IN SOFTWARE ENGINEERING

Sep. 2019 - Apr. 2024

- **GPA:** 3.6/4.0
- **Relevant courses:** Data Structures and Algorithms (Java), Introduction to Software Development (Git, SDLC), Large Software Design, Databases (SQL), Introduction to Data Mining

Skills

Languages Java, Python, JavaScript (ES6), HTML, CSS, SQL (Postgres), Bash

Development Spring Boot, React, Node.js, Bootstrap

Data and ML pandas, numpy, Scikit-learn, PyTorch, TensorFlow, OpenCV

Other Technologies Git, AWS (EC2, DynamoDB), REST APIs, Linux, Microsoft Excel

Experience

Software Engineer Intern

Toronto, ON

NATIONAL BANK OF CANADA

May 2022 - Dec. 2022

- Developed infrastructure for the migration of an on-premises, monolithic trading application to AWS and its shift to a microservices-based application using **Java** and **Spring Boot**, used by **x** traders
- Performed daily production maintenance tasks such as fixing bugs, corresponding to business requests, etc.

Web Developer Intern

Remote

ONTARIO MINISTRY OF EDUCATION

May 2021 - Sep. 2021

- Assisted in structure creation and content entry in Kentico CMS to move Ontario curricula from PDF format to website format
- Reduced time for structure creation by **~95%** by developing a **JavaScript (ES6)** script with **Node.js** and **Kentico Kontent API**

Projects

POST Study Project

McMaster AI Society

MACHINE LEARNING PROJECT

Sep. 2021 - Apr. 2022

- Worked with a team to apply a **support vector machine (SVM)** to help solve a classification problem in the **Pharmacogenetics of Opioid Substitutions Treatment Response Study (POST)**, in collaboration with McMaster's Faculty of Health Sciences
- Produced scripts for data cleaning in **Python** and utilizing **pandas**, amending a raw data set of **3000+** characteristics to a clean set of **~400**, on which the model was built
- Built a classification machine learning model using **Scikit-learn** to predict whether a given opioid patient is likely to become addicted or not

League of Legends Data Fetcher

Personal Project

DISCORD BOT

Mar. 2021 - Apr. 2021

- Developed a data-fetching Discord bot for League of Legends player data, including commands for fetching live game data and player profile data
- Developed backend in **Python** and integrated the **Riot Games API** to fetch data

Bench Spot

Hack Western 7

ANDROID APP

Nov. 2020

- Helped create a navigation app based in Toronto to show a user nearby benches, public washrooms, garbage bins, etc.
- Developed backend in **Java**, integrating **Google Maps API** and parsing together data from City of Toronto Open Data Set in **Android Studio** to create the app