


Haoqi Zhang

University of Waterloo (September 2020 - Present)


Bachelor of Mathematics, Data Science, 4th year.

Excellent Standing, Cumulative GPA: 3.9

 +1 (416) 428 1852

 zhang001221@gmail.com

 [linkedin.com/in/haoqi-zhang-b6a86721a](https://www.linkedin.com/in/haoqi-zhang-b6a86721a)

 <https://github.com/HQisnb>

SKILLS:

- **Coding Languages:** C/C++, Python, HTML/CSS, Javascript, React, SQL, R, Java
- **Data/Maching Learning package:** pandas, sklearn, joblib, PyTorch, Pyspark, Numpy, Beautifulsoup
- **Tools:** Git, Jupyter, Linux, Latex, MS Office (Word, Excel, PowerPoint), AWS

PROJECTS:

Biquadris Game

Waterloo, ON, 2021

- Led a team of 2 and implemented a two-player version of the Tetris game
- Class, inheritance, polymorphism, design pattern (Factory, MVC...) were implemented
- Developed and tested in Linux

Simplified C++ Compiler

Waterloo, ON, 2022

- Developed and tested a simplified C++ compiler with assembly language and C++ in Linux

School Enrollment System

Waterloo, ON, 2022

- Developed an embedded SQL (in C) program
- Extracted info from SQL queries to store and process in C, and represent expected result

Camera Store Database

Waterloo, ON, 2022

- Designed a database using SQL for a camera shop (with UML diagram)
- Tested with inserting, deleting, updating and selecting
- Incorporated conditions and restrictions depending on the situation while processing data

Machine Learning with R:

Waterloo, ON, 2022

- Led a team of 4 people
- Multiple models of classification trees were implemented
- Neural network model, Naive Bayes model, and KNN model were used
- General linear regression models with different link methods were implemented
- Data were processed, cleaned, and analyzed (classified) with models

Personal Web:

- Components were built with React/html
- The functionalities were implemented with Javascript and JSON
- CSS were used for decorating the web page