

# Bill (ZeTao) Wang

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## SKILLS

**Languages:** Python, Java, C, C++, JavaScript, HTML5, CSS, Lua

**Frameworks:** Express.js, Node.js, jQuery, Flask, Bootstrap, PyQt5, Kivy

**Others:** Amazon Web Services (AWS), Git, Linux/Unix, SQLite, Nvim/Vim, OpenCV, Figma

## EDUCATION

**University of Waterloo**

Waterloo, ON | 2022-2027

**BACHELOR OF SOFTWARE ENGINEERING**

**Scholarships:** President's Scholarship of Distinction

## WORK EXPERIENCE

**CANADIAN STEM & AI ACADEMY** | PROGRAMMING INSTRUCTOR/COORDINATOR

May 2022 - Aug 2022

- Developed a python app inspired by the daily word game "Wordle" with **PyQt5** library for the GUI and JSON files for local data storage for the hackathon curriculum.
- Instructed 5-10 students about computer vision through the Anki Cozmo-scripted using **Python** integrated with **OpenCV** and pre-trained model data to detect human faces.
- Enhanced the students' Python capabilities to a production level using **GitHub** and google slides by designing thorough lesson plans and step-by-step instructions for a hackathon curriculum.

## PROJECTS

**AUTOWATER** ↗

UNIVERSITY OF WATERLOO | PROJECT

- Automated plant watering by analyzing specific plants' moisture levels' using **C++** and Arduino IDE for scripting, sending soil data back to the control board for processing.
- Engineered a watering system by researching and documenting the purpose of each hardware component and assembling the Arduino UNO, motors, pump, and soil-moisture sensors to work harmoniously.
- Maximized productivity and invigorated team members to perform by organizing team meetings, laying out an action plan, and assigning each member tasks to do over a course of 3 months.

**EARSKETCH MUSIC** ↗

AMAZON X BRIDGETO | HACKATHON

- **Placed 3rd** overall by composing melodies using **Python** and the EarSketch API library in a hackathon consisting of over 100 students.
- Improved the music produced which conveys and highlights relevant societal issues by attending workshops and researching the importance of climate change, aboriginal culture, and aboriginal music/arts.

**ROTMAN TRADING ALGORITHM** ↗

HER CODE CAMP | HACKATHON

- **Placed 2nd** overall by generating close to \$10 000 profit using **Python** and Rotman Interactive Client **REST API** inside a simulated real-time stock-market trading environment hosted by the hackathon.
- Optimized the trading algorithm by organizing team meetings to record and analyze market trends and volatility to outperform competitors' algorithms.

**THE FBLA QUIZ** ↗

CANADIAN NATIONAL LEADERSHIP CONFERENCE - FBLA | HACKATHON

- **Placed 10th nationally** in the programming division by using **JavaScript**, **CSS**, and **HTML** to develop the front end of a web app quiz to test users' knowledge on facts found on the Future Business Leader of America's website.
- Developed the backend application by incorporating **Express.js** and **jQuery**, accessing local data storage/JSON files, and calculating users' correct answers to be displayed in the users' interface.