

# TOM ZHANG

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## EDUCATION

University of Waterloo (GPA: 3.9/4.0)

September 2024 - June 2029

Computer Science and Business Administration (Double Degree)


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## TECHNICAL SKILLS

- **Programming Languages:** HTML/CSS, JavaScript, Python, SQL, C, Bash
  - **Frameworks:** React, Tailwind CSS, Node.js, Express, MongoDB
  - **Tools:** Git, Cursor, ChromeDevTools, Linux, MySQL
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## EXPERIENCE

Python Developer, Centennial Collegiate

April 2023 - June 2024 

- Developed a program for my high school's principal to organize class schedules onto an Excel document, **eliminated manual work** to organize their schedules and **enhancing visual appearance** using **Python** and the library **Openpyxl**.
- Was rewarded **\$150 of honorarium, a reference letter from the principal, and a hoodie** for my work.


Junior Software Engineer, Krachi's Space Technologies

December 2024 - January 2025

- Created front-end websites and handled email automation with back-end server using **React, Tailwind CSS, and Node.js**.
  - Optimized website for cross-device compatibility, enhancing user experience and accessibility across mobile, tablet, and desktop platforms.
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## PROJECTS

Google Minesweeper Solver

May 2023 


- Coded an algorithm that solves Google's Minesweeper Game (hard mode) on the browser within **15s**.
- It captures the screen, identifies the game board, processes the image, sends the data to a complex algorithm, determines where the mines are, and sends click signals to the computer using **Python** and the libraries **OpenCV and PyAutoGUI**.
- Used concepts including **Computer Vision, Image Processing, Binary Search, and Click Automation**.

Real-Time Market Data Extraction and Excel Conversion

August 2023 

- Collaborated on a project aimed at scraping real-time stock market data for financial analysis using **Python**, and the library **openpyxl**.
- Automated sorting, grouping and storing of real-time financial data in **Excel**.

Github Profile Beautifier

August 2023 

- Built a program that beautifies your Github profile  by creating fake contributions to your account, thereby creating images on your contribution chart using **Python and Bash scripting**.

Personal Portfolio Website

January 2025 

- Created a visually appealing portfolio website, [Tom's World](#) using **React and Tailwind CSS**.
- Ensured cross-device compatibility for my website.