

Natalie Wong

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Markham, Ontario - L3R 6A5, Canada

QUALIFICATIONS

- Strong problem-solving skills utilized in mathematics and computing contests
- Excellent leadership and collaboration skills shown through first chair orchestral experience
- Superb communication skills illustrated through campaigning as a volunteer
- Firm dedication to software development shown through persistent self-taught programming experience
- Exceptional punctuality demonstrated by respecting deadlines in school

TECHNICAL SKILLS

• Languages

Java, Python, C++, Assembly Language 8085, HTML5, Cascading Style Sheets (CSS), JavaScript

- Developed a resistor band calculator GUI utilizing PyGame
- Programmed a dynamic, single-player game using Java Swing and OOP concepts

• Technology

Visual Studio Code, Git, Command Line Interface

EDUCATION

• University of Waterloo

BaSC in Computer Engineering

Sept 2024 - current

Waterloo, Canada

- Extracurricular: Midnight Sun Solar Rayce Car Team

• Markville Secondary School

Ontario Secondary School Diploma (OSSD)

Aug 2020 - Jun 2024

Markham, Canada

- Extracurriculars: Web and App Development Club, Computer Science Education Club (CSEC), University of Waterloo Euclid Contest (CEMC), University of Waterloo Canadian Computing Competition (CCC), American Computer Science League (ACSL)
- Awarded the Ontario Scholar and Honour Roll

HARDWARE EXPERIENCE

• Electronic Circuits and Breadboards

2022 - 2024

Tools: logisim evolution

- Implemented electronic circuits onto breadboards for experimentation
- Designed and analyzed fully functional electronic and CMOS circuits
- Constructed a CPU that handles base 3 signed or unsigned arithmetic operations and outputs the result in base 7 using CMOS circuits
- Skilled with Voltmeters and various electronic components

• Arduino Microcontroller

2023

Tools: Arduino IDE

- Constructed a crane utilizing popsicle sticks, joysticks, and an Arduino microcontroller
- Implemented the behaviors of the crane utilizing the Arduino variant of C++
- Designed the structure of the crane by applying extensive physics knowledge

• PCB Board Design

2024

Tools: Fritzing

- Designed and engineered a fully functional music box utilizing a PCB Board
- Soldered and analyzed electronic components diligently, preventing cold solder joints

VOLUNTEER EXPERIENCE

• Campaign Volunteer for Conservative Party, MP

Aug 2021 - Sept 2021

Bob Saroya Campaign

- Surveyed residents in person and via phone calls, increasing community engagement
- Collaborated effectively with members of parliament and other volunteers
- Organized relevant data in a designated software

INTERESTS

Languages: English (Proficiency level), Cantonese (Proficiency level), Mandarin (Proficiency level)

Interests: Instrumental music, Basketball, Speedcubing