Joanna Cai

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EDUCATION

Incoming at the University of British Columbia, Bachelor of Applied Science in Engineering *Sept 2025 - May 2029*

John Oliver Secondary School, Digital Immersion Mini School Program *Sept 2020 - June 2025*
Relevant Coursework: Digital Communications, ADST Robotics, Calculus 12
Clubs: Founder and President of Gardenbank Club, Co-President of Officials Club

TECHNICAL SKILLS

Programming Languages: Python, HTML, CSS, JavaScript, C++, Swift
Frameworks & Tools: Fusion 360, KiCad, Figma, Git, XCode, Office 365

WORK EXPERIENCES

Nokia **Hybrid, Toronto**
Software Engineering Future Tech Intern | Python, Docker, Powerpoint *July 2024 - Aug 2024*
● Used Pytest and Schemathesis to write automated tests for Nokia's Notifier API.

PROJECTS

melokey | KiCAD, Fusion 360, Figma, Swift *June 2024 – Present WIP*
● Created an electronic (MIDI) piano keyboard tailored to the needs of neurodivergent youth.
● Designing a KiCad PCB, Fusion 360 enclosure, Figma app framework, and app accompaniment.

blipyboard | KiCad, C++, Fusion 360, Circuit Python *May 2025-June 2025*
● Designed and developed a PCB and enclosure for an 8-key macro keypad with a rotary encoder and an OLED screen.
● Utilized KMK Firmware to program the functions of each component.

bloompy | KiCad, C++, Fusion 360 *May 2025-Present WIP*
● Currently designing and developing an omnidirectional robot that grows wider for strength or taller to fit into narrow areas.
● Utilizes an ESP32 and ESP32 CAM for machine learning and Bluetooth control.

LEADERSHIP

STEM Sprouts **Vancouver, B.C.**
Facilitator *June 2023 – Jan 2024*
● Created a safe and inclusive environment for neurodivergent individuals aged 7-12 to access interactive STEM activities.
● Thoroughly briefed on appropriately overseeing autistic learners.

Canadian Association of Girls in Science **Remote**
Senior Ambassador *Sept 2023 – June 2025*
● Oversaw weekly CAGIS sessions by promoting various STEM subjects and industries.
● For the quiz stream, I created interactive quizzes, word searches, and activities to interest young girls in various STEM industries.

59 Vancouver Air Cadets **Vancouver, B.C.**
Warrant Officer Second Class, Level 2 Warrant *Sept 2019 – Present*
● Beared responsibility for all level 2 cadets in their transition to level 3 as the sole aviation instructor and assistant drill instructor.
● Led squadron-wide operations promoting physical fitness, citizenship, exploration, and leadership.

Award

TD Scholarship for Community Leadership *2025*
● 1 of 20 young leaders selected out of 4000 national applicants.
● Full-ride scholarship valued at $70,000 awarded to those who show a commitment to community and driving meaningful change.

NCWIT Aspirations in Computing Award *2024*
● Presented to high schoolers who display progression in computing skills, leadership through advancing tech, and participation in computing-related extracurriculars.

Dr. Jim McEwen Innovation Award *2025*
● Scholarship valued at $5,000 that is presented to the student who has achieved an exceptionally innovative accomplishment, talent, skill, or ability, well beyond any expectations and requirements of courses taken by the student.