

Karanveer Singh

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EDUCATION

Bachelor of Science in Computer Science

Simon Fraser University

June 2028

Burnaby,
BC

WORK EXPERIENCE

Robotics Mentor

First Lego League

September 2023 – April 2024

Surrey, BC

- Mentored a FIRST LEGO League Challenge robotics team through robot design, programming, and systems integration
- Developed team problem-solving strategies, guiding iterative testing, debugging, and competition readiness
- Led the team to a 2nd-place finish at the LA Matheson Secondary competition

Assistant

United Nations Association in Canada

August 2023

Vancouver, BC

- Provided customer-focused support during GEF Assembly events.
- Assisted diverse guests, including foreign dignitaries, in high-volume environments.
- Adapted to multiple roles while maintaining event space organization.

PROJECTS

2D Game Project (CMPT 276) — Java

October 2025 – December 2025

- Developed a complete 2D top-down game with gameplay systems built from scratch in Java.
- Implemented the core game loop, including update, render, input, and physics stages.
- Designed and coded player movement, enemy AI (Michael Myers), collision detection, and tile-based maps.
- Collaborated in a 4-member team using Git, handling merge conflicts, code reviews, and feature branching.

TECHNICAL SKILLS

Languages | Java, Python, C/C++, SQL (Postgres), HTML/CSS

Frameworks | React, Flask, JUnit, FastAPI

Developer Tools | Git, Docker, Maven, Google Cloud, VS Code, Visual Studio, Xcode, Eclipse

Libraries | pandas, NumPy, Matplotlib