

Danny Wang

Student & Software Developer

📍 Calgary, AB

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High-achieving IB high school student with 8+ years of programming experience across software development, machine learning, competitive programming, and web technologies. Strong foundation in Python, C++, algorithms, and problem solving through independent projects, STEM leadership, and national mathematics and computing competitions. Effective communicator and collaborative team member with experience leading youth STEM initiatives and mentoring students.

EXPERIENCE

Executive Role | Math Attack Society (Non-Profit Organization)

August 2025 – Present

- Facilitated planning and execution of a team-based math competition with over 60 student participants.
- Developed contest materials and mentored students preparing for mathematics competitions.
- Coordinated event logistics and collaborated with team members to meet deadlines.
- Communicated with students and parents to support successful event experiences.

Executive Role | Alpine Reasoning Challenge (Non-Profit Organization)

August 2025 – Present

- Assisted in planning and operating youth STEM competitions and events.
- Coordinated volunteers, logistics, and educational materials for organized activities.
- Demonstrated leadership and accountability in structured team environments.

Entrepreneur | Independent eBay Business

January 2024 – February 2026

- Managed independent online storefront operations including inventory sourcing, pricing, listings, and shipping.
- Maintained strong customer satisfaction through responsive support and quality control.
- Analyzed market trends and pricing data to optimize product sales and profitability.
- Developed organizational, financial, and problem-solving skills through day-to-day business operations.

EDUCATION

High School Diploma Candidate | IB Program

Sir Winston Churchill High School, Calgary, AB

- Expected Graduation: June 2028
- 4.0 GPA | 97% Average
- AIME Qualifier (2x) • USACO Gold • 1842 Codeforces • 65+ Math Awards and Honour Roll Placements
- 2000+ programming problems solved across Codeforces, LeetCode, DMOJ, and more. (Top ~4% Worldwide)

SKILLS

Programming Languages

Python • C/C++ • JavaScript • HTML/CSS • SQL • C#

Technologies

PyTorch • React • Flask • FastAPI • Git/GitHub • Linux • NumPy • Pandas

Areas of Interest

Machine Learning • Competitive Programming • Full-Stack Development • AI/LLMs • Algorithms & Data Structures

Selected Projects

SpinFilter: AI-powered full-stack media bias analysis platform using React, Python, and NLP models.

Tensorbit Core: C++/CUDA transformer pruning library for efficient AI model optimization.

Cosine Similarity Distillation: Novel teacher-free knowledge distillation method built in PyTorch for storage-efficient student model training.

Calgary Housing Neural Network: Implemented a multilayer perceptron from scratch in Python to accurately predict Calgary property assessments.

Languages

English - Native

Chinese (Mandarin) - Conversational