Sunny Hoang

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EDUCATION

University of Calgary   Calgary, Alberta
Bachelors of Science in Computer Science   *Expected June 2026*
- **Relevant Courses:** Data Structures and Algorithms, Computing Machinery 1 & 2, Introduction to Software Engineering, Programming Paradigms, Data Base Management Systems, Introduction to Computer Science 1 & 2
- **Science Co-op Program**
- **Alexander Rutherford Scholarship**

COMPETITIONS AND PROJECTS

Pulse Pursuit | *Python*   November 2023 – November 2023
- Developed a 2D horror game with heart-rate-based mechanics in a team of **5** at **natHacks 2023**
- Achieved a **50%** win rate during playtesting
- Integrated an **IoT device** to capture heart rate data for interactive jump-scares and puzzles

Heartrate Monitor | *Python*   December 2023 – May 2024
- Developed an app to track heart rate statistics using **smart watch device** integration
- Implemented **4** core features including live readings, data analysis, and alerts
- Visualized data using **Matplotlib**; optimized for real-time monitoring

Website Portfolio | *HTML, CSS, JavaScript*   July 2024 – August 2024
- Designed a personal portfolio website to showcase projects and interests
- Added interactive web elements such as animations and hamburger menus for ease of navigation
- Implemented responsive design for mobile and desktop users, focusing on **UX/UI elements**

Snake Run | *C, Assembly*   March 2024 – April 2024
- Developed a game with a team member using **bare-metal programming** on a **Raspberry Pi 4 module** to compile and run the game
- Expanded the classic snake game, in which the objective is to escape from enemies and obstacles along the way, throughout **4** different maps before the 5 minute timer runs out
- Created **4** levels with increasing difficulty and SNES controller support

Self-checkout | *Java*   October 2023 – December 2023
- Collaborated with **35** peers to build a self-checkout system for grocery stores
- Applied **object-oriented programming** principles to implement core system features
- Enhanced team collaboration skills by working in a large-scale software engineering team

EXPERIENCE

Club Member   September 2022 – Present
Competitive Programming Club, Calgary, Alberta
- Solved **50+** algorithmic problems to improve problem-solving and coding efficiency
- Participated in coding challenges and hackathons to enhance collaborative skills

Store Associate   September 2021 – August 2022
T&T Supermarket, Calgary, Alberta
- Provided customer service and stocked inventory, increasing shelf turnover by **30%**
- **Collaborated** with colleagues with **team-work** and **communication** skills
- Overlooked training of new employees with an increase of **productivity** of **90%**

SKILLS

Languages: Java, Python, C, HTML, CSS, Assembly, Haskell, SQL, JavaScript
Libraries/Technologies: Firebase, Git, pygame, numpy, OpenCV, Tkinter, CTkinter, Matplotlib