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
- **Science Co-op Program**
- **Alexander Rutherford Scholarship**

COMPETITIONS AND PROJECTS

Pulse Pursuit | *Python*   November 2023 – November 2023
- Developed a game at the **natHacks 2023 hackathon** with **4** other teammates
- Implemented the use of an **IoT device** to record heart rate for an immersive gameplay of jump-scares and puzzles
- Utilized the **pygame** library to create a terrifying 2-D RPG

Heartrate Monitor | *Python*   December 2023 – May 2024
- Developed a health app that analyzes heart rate data and provide statistics with **100%** accuracy
- Developed using the library from the **2023 natHacks** and **CTkinter** to record heart rate from a smart watch
- Implemented **4** features of the app including a live reading, **data visualization with MatPlotlib**, **data analysis**, and alert system

Website Portfolio | *HTML, CSS, JavaScript*   July 2024 – August 2024
- Created my own minimalist website portfolio for users to explore my interests and projects
- Implemented interactive **web elements** such as buttons, animations, smooth scrolling, hamburger menu, and link directories
- Implemented both a **mobile** and **desktop** version of the website for maximum **user experience**

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
- Utilizes an SNES controller connected to the Pi module to control the snake

Self-checkout | *Java*   October 2023 – December 2023
- Developed a grocery self-checkout system for a software engineering course with a total of **35 members**
- Developed with **object-oriented programming** principles in mind
- Immersed in the environment and dynamics of a **software engineering team**, where communication and collaboration is crucial

EXPERIENCE

Club Member   September 2022 – Present
Competitive Programming Club, Calgary, Alberta
- Joined the Competitive Programming Club at the University of Calgary to enhance my coding skills
- Solved **50** questions in the easy-medium range

Store Associate   September 2021 – August 2022
T&T Supermarket, Calgary, Alberta
- Worked as a grocer attendant for **11 months** assisting in stocking and **customer service**
- **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