

Shanna Hollingworth

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EDUCATION

- **University of Calgary** Calgary, Canada
MSc in CS (Human Computer Interaction): Thesis-Based (Supervisor: Dr. Wesley Willett) *Jan. 2024 – June 2026*
 - **Alberta Graduate Excellence Scholarship (AGES) 2024:** \$11,000 award which recognizes outstanding academic achievement in graduate studies.
 - **Wendy Powell Woman of Inspiration Award 2024:** Awarded by CAN-CWIC (Canadian Celebration of Women in Computing) to a self-identified female student in a Computer Science program who has inspired young women to explore technology and/or to pursue careers in technology.
- **University of Calgary** Calgary, Canada
Bachelor of Science in Computer Science Honours, Minor in Data Science *Sept. 2018 – June 2023*
 - **President's Award Nominee:** Nominated by the Department of Computer Science upon graduation for demonstrating academic achievement with outstanding co-curricular contributions to the university.

PROGRAMMING SKILLS

- **Languages:** Java, Ruby, Bash, Python, C++, C#, JavaScript, HTML, CSS, SQL
- **Technologies:** React Native, React, Unity, Flask, Firebase, Android Studio, Jenkins, Github

RELEVANT WORK EXPERIENCE

- **Memory Anchor** Calgary, Canada
Data+AI Specialist *Oct 2023 - Feb 2024*
 - **Vector Search:** Improved performance and matching accuracy from computer vision output to csv datapoints by refactoring the internal search engine to utilize NLP vector search (*OpenAI Embeddings API*)
 - **Dashboard Development:** Delivered actionable insights to customers through dynamic data visualizations in a web-based dashboard. (*JavaScript, React*)
 - **Augmented Reality Development:** Enabled smoother AR functionality within the app by transitioning from Unity to a native mobile development approach. (*React Native, Viro*)
- **Cisco** Calgary, Canada
QA Software Engineer Intern *May 2021 - August 2022*
 - **Automated Testing:** Reduced pre-release risks by automating regression and conducting smoke tests for Mac/Linux, and expanding the unit testing suite. (*Jenkins, Ruby, RSpec*)
 - **Web Scraping:** Ensured timely platform releases by automating the daily scraping of Apple/Linux distribution websites and sending mass notifications via email and Webex. (*Ruby, BASH*)
 - **Database Management:** Enhanced product performance tracking through efficient database management and visualization (*SQL, Ruby and RESTful API*)
- **University of Calgary** Calgary, Canada
Teaching Assistant *Jan 2023 - Present*
 - **Duties:** Teaching fundamental computer science and coding concepts, grading assignments and exams, and assisting students with coursework.
 - * **Courses:** CPSC 481 (Human Computer Interaction 1), CPSC 583 (Intro to Information Visualization), CPSC 233 (Intro to Java), CPSC 217 (Intro to Python)

PROJECTS

- **FluencyAR: Augmented Reality Language Immersion:** Undergraduate honours research project developing an AR language learning system that integrates generative AI, object recognition, and AR visualization to enhance conversational fluency for intermediate learners. (*Unity, Microsoft Azure Speech Services API, and ChatGPT API*)
 - **Poster publication at UIST 2023 San Francisco:** <https://dl.acm.org/doi/10.1145/3586182.3616670>
- **ComeUp:** HackTogether Alberta 2021 1st Place Winner: Native Android app that allows users to find relevant resources such as scholarship opportunities and local personal development events. (*Android Studio, Java, Firestore/Firebase*)
- **Mass-Spring System:** Application of mass-spring systems to efficiently simulate a simple mass on spring, a pendulum chain of masses connected by springs, a cube of jelly, and a hanging cloth falling. (*OpenGL, C++*)
- **Artificial Intelligence For Public Health:** Part of a program partnered with the data science for social good program in Seattle, involving working in a team to design an artificial intelligence solution for health care routing in Malawi.
 - **Contribution:** Led a sub-project to integrate the solution into a VR training environment, importing city GIS data and programming an immersive driving experience based on AI-defined paths. (*Unity, GIS*)

EXTRACURRICULARS

- **Women in Computer Science** University of Calgary
President + CoFounder *Oct 2023 - Feb 2024*
 - **Club Formation:** Spearheaded the formation of the organization by gathering information, delegating to peers and faculty members, authoring the club constitution, and securing \$1000 annual funding from a local company.
 - **Hiring:** Interviewed and hired several executive members to form the first board.
 - **Events:** Ran social and personal development events with guest speakers on topics such as a web development series, HR and interviewing tips, financial literacy night and industry networking events.
- **Chinese Language Conversation Club** University of Calgary
President, previously VP Events *May 2020 - April 2022*
 - **Events:** Planned and hosted weekly 1.5 hour educational online events through COVID-19 which maintained 15-20 participants a week, and up to 50 participants for special events, and oversaw the transition back to in person.
 - **Finance:** Increased club budget by 300% through implementation of club membership, and a sponsorship from a local language learning company