# Wai Ting Chan (Amy)

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## Technical Skills

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|---|---|
| Programming Languages: | C++, Java, Python, R, HTML, CSS, JavaScript, Perl, Linux, C, PHP |
| Databases: | MySQL, Microsoft SQL Server, Oracle |
| Software: | Visual Studio, IntelliJ, Eclipse, SciTE, R Studio, MATLAB, Dreamweaver, GitHub, Git, DataGrip |

## Projects

**Oct 2024**　　**CIC Generative AI and Sustainability Hackathon**
- Developed a disease diagnosis system using AWS and generative AI
- Designed a Flutter UI for symptom input and diagnosis display
- Implemented Cognito for secure user authentication
- Utilized API Gateway to route frontend requests to backend services
- Optimized outputs via prompt engineering and filtering in Lambda
- Integrated Bedrock with the Llama 3 model to perform AI analysis and generate possible diagnoses

**Sep 2023 – Nov 2023**　　**Olympic Games Management System**
- Developed a comprehensive management system for Olympic Games operations, involving meticulous entity-relationship modeling
- Optimized system performance through rigorous normalization
- Generated SQL scripts for the creation and management of tables
- Designed a user-focused interface using HTML, CSS, and JavaScript
- Integrated PHP and Oracle to construct a reliable backend
- Connected frontend to backend systems to deliver cohesive functions

**Sep 2022 – Dec 2022**　　**Beauty Application**
- Developed an application for users to find and bookmark cosmetics
- Constructed JUnit tests covering scenarios like edge cases
- Utilized breakpoints to analyze and resolve issues during debugging
- Implemented interactive buttons and dynamic search bars
- Saved items from a bookmark table to a JSON file
- Enhanced application architecture using object-oriented design principles, encapsulation, and polymorphism.

| May 2022 – Aug 2022 | **Car Parking Management System** |
| | - Collaborated in a team setting to build a database aimed at enhancing the efficiency of car parking operations and space management |
| | - Managed parking passes and vehicle details using MySQL |
| | - Enforced constraints with "CHECK" to ensure the start date is earlier than the end date |

| Jan 2021 – Apr 2021 | **Self Learning Website** |
| | - Developed a responsive website to test user's knowledge |
| | - Produced animations in Flash to introduce users to networking |
| | - Fulfilled UI with HTML, CSS and JavaScript |

## Work Experience

Sep 2022 – Current | **Statistics Marking Position**, Langara College in Canada
- Work for 2 professors each term
- Ascertain and follow their specific marking requirements
- Have graded assignments for over 400 students
- Created assignments on WeBWorK using Perl for the first time

Jul 2020 – Apr 2021 | **Bubble Tea Barista**, Ban Chun Tea in Hong Kong
- Worked in a fast-paced environment, multitasking between food and drink preparation, walk-in customer service, and phone inquiries
- Cooperated with co-workers efficiently by focusing on assigned tasks and assisting them when my tasks are done
- Trained five trainees well by transferring my knowledge to them

Oct 2020 – Apr 2021 | **Tutor**, Unice in Hong Kong
- Tutored a group of 8 elementary school students patiently
- Reported students' learning progress to their parents every week
- Helped students improve their scores from 60 marks to 80 marks by explaining sophisticated concepts with real-life examples

## Education

Expected graduation May 2025

**4th Year Bachelor's Degree** at University of British Columbia, Vancouver
- Major in Cognitive Systems

Jan 2021 – Aug 2022

**Associate of Computer Science** at Langara College, Vancouver
- Graduation with distinction
- Several Dean's Honour Roll