



Rang Xiao

Second degree in Computer Science, 3rd year
 Bachelor of Science in Mechanical Engineering
 Master of Engineering in Engineering Management

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TECHNICAL SKILLS

Language:	C, C++, Java, JavaScript, Python, PHP, HTML, CSS
Databases:	Oracle, SQL
Software:	VS Code, MATLAB, PyCharm, IntelliJ, WireShark
Mechanical Engineering:	CFD analysis; CAD drawing; Thermal-Fluid Design
Project Management:	Project Scheduling and Management; Risk Management; System Reliability Analysis

Project

CS Project

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| Fight Game | 2023 Jul |
| <ul style="list-style-type: none"> Using HTML and JavaScript built a 2 player fighting game Added animation for different character motion including move, jump, attack, and dead Deployed using GitHub pages Skills: HTML, CSS, PHP, Oracle, SQL | |
| Personal Resume Webpage | 2023 Jul |
| <ul style="list-style-type: none"> Built a static personal web page containing resume information Set resume for download Deployed using GitHub pages Skills: HTML, CSS | |
| League of Legends Season Database | 2022 Dec |
| <ul style="list-style-type: none"> Designed a database to store and search season information about League of Legend Championship Developed a web-based user interface using PHP, HTML, and CSS Developed a database to keep and manage input data using Oracle and SQL Skills: HTML, CSS, PHP, Oracle, SQL | |
| Student Information File System | 2021 Dec |
| <ul style="list-style-type: none"> Use Java built a information management system to store students' information, including basic information, course history and planning, average calculation. Store student information in a list and preserve input data in JSON file Load data from JSON file to restore data. Using Swing GUI generate student's course plan for current term Skills: JAVA, SWING GUI package | |

Mechanical Engineering Project

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| Low-cost Adjustable Arm Prosthesis | 2018 Apr |
| <ul style="list-style-type: none"> Designed a low-cost adjustable arm prosthesis for simple grab and multi-conditional fitting Bending controlled hand is designed for light-weight lifting with lock mechanism Multi-conditional fitting designed for different injury condition ranging from palm lost to forearm lost Simple structure design for easy self maintenance | |



Research Project

Simulation of Robot Seeding using robotic arm

2021 Dec

- 3D modeling the process of picking and sowing seed using robotic arm with trajectory planning
- Generate and manage the arm trajectory for picking seeds and sowing on relative location on growth medium
- Generate robotic arm control code
- Simulate the seed sowing process

Work Experience

Technical Business Analytic, Acturis Canada

2023 Sep – present

- SQL development and database maintenance
- Insurance product development
- Product testing

Teaching Assistant (CPSC 213), UBC

2023 Jun – 2023 Apr

- Holding office hours to help students understand the course material
- Running lab sessions and leading students to solve lab questions
- Grading assignments and exams.

School Counselor, Maple Hill International Education

2019 Jan – 2020 Jan

- Student information collection and management
- Course planning based on the student's condition and wish
- Course schedule

Academic History

Bachelor of Science - Computer Science 4th yr

Expected graduation May 2025

University of British Columbia

Area of study:

- Data Structures
- Algorithms
- Operating Systems
- Computer Vision
- Internet Computing
- Data Mining and Machine Learning

Master of Engineering – Engineering Management

2020 Sep – 2021 Dec

University of Alberta

Area of Study:

- Data analysis/Machine Learning/AI
- Data analysis/Machine Learning/AI
- Risk management
- System reliability analysis
- Financial condition analysis

Bachelor of Science - Mechanical Engineering

2014 Sep – 2018 Dec

University of Alberta

Area of Study:

- Force Analysis in Complex System
- Dynamics
- Mechanical Drawing in SolidWorks
- Mechanical Design
- Thermal Dynamics
- Fluid Dynamics
- Computational Fluid Dynamics
- Vibration
- Thermal-Fluid Sys Design