

ANGELA HUANG

Technical Skills

- **Languages:** Python, C, C++, JavaScript, HTML, CSS, SQL, C#
- **Tools:** Visual Studio Code, Git, Figma, Linux, Google Suite, Microsoft 365, Adobe Photoshop & Illustrator

Projects

Robot Buddy

Python, Raspberry Pi

- Assembled a robotic car using a motor controller and **Raspberry Pi** to assist with navigation around campus
- Implemented **breadth-first search** algorithm in **Python** to **optimize path-finding** through a grid with obstacles
- Modelled the robot's route with **Turtle graphics** to more easily communicate its path to stakeholders

"Re:Recipes" Recommendation Web App

Python (Flask), HTML, CSS (Bootstrap), JavaScript, Supabase

- Built a web application using **Flask framework** to recommend **personalized recipes**, promoting healthier eating habits and reducing food waste
- Crafted a streamlined and visually appealing user interface using **Bootstrap CSS** to enhance user experience
- Integrated efficient backend with **Supabase** for rapid retrieval of recipe data based on user input
- Implemented dynamic features using JavaScript enabling responsive updates of ingredient chips and seamless server calls for efficient **data retrieval**

"Sack The Sheep" 2D Game

Python (Pygame)

- Programmed a 2D top-down game with **pixel-perfect collision mechanics** using **Pygame** in a 3-person team
- Added high-score functionality, game shop, and tweaked player speed to apply **playtester feedback**
- Created and designed **over 85%** of game sprites using **Adobe Illustrator** and Piskel

Personal Website

HTML, CSS, & JavaScript

- Developed a **responsive personal website** using **HTML, CSS, and JavaScript** to showcase my creative design skills and portfolio

Experience

School Assistant, International Languages Peel

Sep 2022 - June 2023

- Mentored struggling elementary students by providing **1-on-1** and small-group assistance to catch them up to their peers
- Managed classroom and office responsibilities, developing strong organizational and **time management skills**

Secretary, Royal Treatment

Sep 2021 - June 2023

- Demonstrated exemplary leadership skills by coordinating community events with **over 300 attendees**
- Managed **Google Drive** and **optimized efficiency** in tracking member attendance and volunteer hour records

Education

Bachelor of Software Engineering, University of Waterloo

2023 - 2028

- Cumulative Average: **3.9 GPA**
- Relevant Courses: Data Abstraction and Implementation (**C++**), Programming Principles (**C**), Methods of Software Engineering
- Recipient of *President's Scholarship of Distinction*