

JESSICA CHEN

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SKILLS

LANGUAGES – Python, C/C++, JavaScript, HTML/CSS, Java, Bash

TECHNOLOGIES/Frameworks – React.js, Node.js, Linux, Git, MongoDB, Pandas, Matplotlib, Jira, Confluence, Figma

EDUCATION

UNIVERSITY OF WATERLOO | *Candidate for Bachelor of Computer Science*

Sept 2022 – April 2027

WORK EXPERIENCE

PHARMACY ASSISTANT – YEE PHARMACY

Sept 2021 – March 2022

- Developed strong organization skills from keeping track of medication expiry dates, packaging medication into capsules, and updating the medication inventory
- Worked with the lead pharmacist by providing English to Mandarin translations for patients

SOFTWARE TESTER – NICOYA

May 2023 – August 2023

- Carefully designed and ran regression test cases for each software update
- Automated tasks run by the scientific instrument for testing using **Python** scripts and libraries such as **Pandas** and **Matplotlib** thus increasing testing efficiency by **24%**
- Created a website using **HTML/CSS** and **JavaScript** that collects ticket information from Jira to aid the software team in tracking release progress for the next patch

PROJECTS

LINGOVISION – Hack the North 2022 Finalist | *Python, Google Cloud, Firebase*

Sept 2022

- Developed an innovative audio translator with AdHawk MindLink's eye-tracking glasses
- Detected text using **Google Cloud** Vision API, translated it through DeepL API, then projected the text using Google's text-to-speech API
- Demonstrated design skills by creating a logo and prototyping the website using **Figma**

TRIALS OF XYLIA | *Python*

- Developed a platformer game using **Pygame** with original story and character designs
- Implemented a scrolling introduction and in-game physics (player interaction with moving obstacles and platforms, bullets from the space shooter)

SUSHI PAINT | *Python*

- A reimagination of MS Paint with a sushi restaurant theme made with **Pygame**
- Implemented undo/redo stacks, lantern buttons with 3 states (normal, hover, pressed), import/save tool

SUNNY SIDE DIARIES | *React.js, Node.js, MongoDB, Flask, Figma*

Dec 2023

- Created a journaling app using the **MERN** stack with AI journal buddies and emotion analysis
- Integrated sentiment analysis using NLP through a **Flask API** and displayed results with charts created by **Chart.js**
- Designed an interactive prototype with **Figma** that was brought to life with eye-catching **CSS** animations
- Created original journaling buddies with **OpenAI API** that respond to journals with different personalities

RAINET | *C++*

Nov 2023 – Dec 2023

- Implemented a Stratego-inspired board game for a class utilizing **object-oriented programming** principles
- Applied the observer design pattern and practiced good software development strategies by achieving high coupling and low cohesion
- Received a perfect score on the project

- Developed a mental health app with **Taipy** that tracks users breaks throughout the day with an integrated AI chatbot assistant built with Cohere's text generation API
- Utilized **Pandas** to extract and user data which was then plotted with built-in **Taipy** tools
- Winner of Best Use of Taipy at Hack Western

RELEVANT COURSEWORK

- Functional programming, Imperative Programming, Object Oriented Software Development