

# Flavia Y. Ouyang

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## EDUCATION

**McGill University**, Montreal, QC  
Bachelor of Science, Computer Science

**June 2022**

**Moscrop Secondary School**, Burnaby, BC  
Valedictorian, President of Moscrop Model United Nations Club

**June 2018**

## EXPERIENCES & PROJECTS

### McGill TA Management System

**React, Node.js, Express.js, PostgreSQL, Supabase, Figma**

*UI/UX Designer, Front-end Developer*

- Worked in a team of 3 to create a responsive full-stack management system for McGill students and staffs
- Responsible for UI/UX design and front-end implementation
- Developed login/registration page, dashboard, rating TA feature and system operations feature
- Adapted the implementation for responsive design

### Quebec Sage-Femme Database System

**IBM-DB2, Java, JDBC, Docker**

*A database system that connects midwives with expecting parents*

- Database Design: Created Entity Relationship Model and Relational Model
- Implemented the database using IBM-DB2 and injected arbitrary data for testing
- Performed a number of advanced queries to ensure that designed database is ready for real-world application
- Developed a commandline interface using Java and DB2 through JDBC

### Multiplayer Board Game: Elfenroads

**React, Phaser, Apollo GraphQL, Figma**

*Worked in a team of 7 to create a full stack interactive browser game*

- Designed the UI of finishing phase using Figma
- Created a number of documentation to conceptualize the design of the software: Use Case Model, Concept Model, Environment Model, Operation Model and Protocol Model
- Developed the functionality of player's travel cards

### CLI Wordle Clone

**Python**

*Passion project: a puzzle word game that can be played in the terminal*

- Written in pure Python
- Used libraries including colorama, rich, and english\_words

## LEADERSHIP EXPERIENCE & COMMUNITY SERVICE

### Tutor

**August 2021- Now**

*McGill CS Undergraduate Society Help Desk*

- Helped students with questions related to object-oriented programming practices, design patterns, data structures and algorithms, and web development

### VP Marketing

**May 2019 - January 2022**

*Trek for teens Montreal*

- Organized and promoted more than 10 fundraising events
- Raised over \$10,000 in events revenue
- Directed and guided the development of marketing automation targeting strategies

## SPECIALIZED SKILLS

**Programming Languages:** Java, Python, JavaScript, HTML & CSS, PHP, SQL, C, C++, Bash

**Technology and Tools:** React, Flask, Git & GitHub, Node.js, Express.js, Django, Bootstrap, Figma, Adobe XD, Docker, IntelliJ, PHPStorm, Visual Studio Code, JUnit, Unix, Tailwind, PostgreSQL, IBM-DB2

**Industry Knowledge:** Agile Development, Waterfall Model, Object-oriented Programming, Version Control