

Yu Tong (Jessie) Cao

(647)-636-9084 | jessietcao@gmail.com | [linkedin.com/in/jessietcao](https://www.linkedin.com/in/jessietcao) | github.com/jessietcao

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, SQL, HTML/CSS, R, Racket

Frameworks: NumPy, pandas, Bootstrap, Matplotlib, OpenCV

Developer Tools & Libraries: Git, Bash, VS Code, Eclipse, Swing, DB Browser, SQLite

PROJECTS

Period Tracker | *Java, SQLite*

- Developed a full-stack JAR application software, using GUI as the front-end and SQLite for the back-end
- Established connections between Java and SQLite by loading the JDBC driver, facilitating the execution of SQL queries and handling of Result Sets
- Constructed an SQLite .db file storing user-specific information, managed through retrieving and calculating from user input via GUI
- Implemented an interactive calendar displaying both inputted and predicted menstruation stages

Personal Portfolio Website | *HTML/CSS, JavaScript*

- Developed a personal portfolio website using HTML/CSS for the front-end layout and JavaScript for enacting interactivity
- Designed an engaging layout implemented with transitions and animations to showcase projects and skills

Basic XML Interpreter | *C*

- Implemented a back-end program used to parse arithmetic expressions in XML, generating tokens
- Constructed data structures such as XML collector and tree, facilitating the efficiency of tokens storage and interpretation

Colour Detector | *Python, NumPy, pandas, OpenCV*

- Developed a Python application detecting colours in images by leveraging package APIs
- Utilized OpenCV library to read and display images while also handling mouse events for pixel selection
- Leveraged the pandas library to build a function retrieving RGB values of clicked pixels, calculating the colour names based on the CSV dataset

EXPERIENCE

Mathematics and Computer Science Tutor

Feb. 2024 – Present

The Tutoring Expert

Richmond Hill, ON

- Delivered comprehensive lessons on subject-related concepts and problem-solving strategies
- Stimulated student interest, leading to positive feedback and measurable academic progress

Programmer/Mentor

Sep. 2020 – June 2023

Girls Who Code Club

North York, ON

- Implemented HTML/CSS with Bootstrap in developing website projects reflecting on current issues
- Utilized Figma for designing user-friendly layouts and prototypes.
- Provided advice and guidance on solving competitive programming questions and essential Computer Science concepts.

Youth Mental Health Ambassador

Sep. 2020 – July 2022

Centre of Immigration Services

North York, ON

- Led the design team to create engaging media posts with Canva to reach the youth in need
- Facilitated training sessions for new members on mental health topics

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science

Sep. 2023 – Apr. 2028

GPA: 3.95

AWARDS

Microsoft Women in Technology (2023), President's Scholarship of Distinction (2023), Volunteer Service Award (2022)