

Tony Lin

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EDUCATION

Honours Computer Science Co-op (B.A.Sc.) - 3.8 /4.0 CGPA
McMaster University

Hamilton, ON
September 2021 - April 2025

WORK EXPERIENCE

Jr. Software Engineer

Tech Mahindra

Toronto, ON

May 2022 - August 2022

- Designed a plugin with UML that uses JUnit to generate unit test cases for Java Spring Boot applications.
- Conducted research on Agile Methodology, Software Development Life Cycle and different version control tools and presented findings to Tech Mahindra's Digital Transformation & Execution Director.
- Completed Tech Mahindra's courses on modern banking, digital technologies, Junit, Java, and UML.

Brand Ambassador

Wealthsimple

Hamilton, ON

February 2022 - April 2022

- Promoted the Wealthsimple Cash app and referred 10+ members, generating over \$600 in bonuses.
- Worked in the games section at McMaster University's Spring Festival, serving 100+ students/faculty.

Web Development Tutor

Sir John A Macdonald Collegiate Institute

Toronto, ON

December 2020 - April 2021

- Introduced students to the fundamentals of web development through weekly sessions.
- Prepared powerpoint lessons on HTML, CSS, and JavaScript, and helped students build their personal websites.

PROJECTS

Personal Website

Portfolio

August 2020 — Present

- A responsive website that visualizes my resume by highlighting my work experience, projects, skills, and awards.
- Created using HTML, CSS, JavaScript, JQuery, Bootstrap, and animation libraries.

Face Lock

Encryption Software

January 2023

- Encrypt and decrypt files/folders with facial recognition using symmetric authenticated cryptography.
- Created at the DeltaHacks 9 Hackathon using Python, OpenCV, and Fernet.

Linear Algebraizer

Web Application

January 2022 — April 2022

- A web study tool containing resources on 10 abstract linear algebra theorems built using Elm.
- Implemented an intuitive UI that allows users to visualize abstract linear algebra theorems through their input.
- Interviewed users and iterated over its design throughout the course of 12 weeks.

Cat Viewer

Website

February 2022

- Displays paginated images of cats, with filters over 67 different breeds of cats, containing over 8000+ images.
- Developed in JavaScript with Vue.js and the Vuetify framework using The Cat API.

Tip.cc Suite

Cryptocurrency Bot

May 2021 — July 2021

- Allows users to transfer their entire cryptocurrency portfolio (up to 295 cryptocurrencies) to another Tip.cc account on Discord, auto type in Tip.cc phrase drops, and calculate missing cryptocurrencies in portfolios.
- Automate commands to the Tip.cc bot, built using Python and the PyAutoGUI library.

Mahjong Counter

Web Application

June 2020 - September 2020

- A web application to keep score during Mahjong gameplay, saving 5-10 minutes each game.
- Aggregates and reports 10 statistics including money won/lost, win streaks, and highest win, throughout the game.
- Made using HTML, CSS, JavaScript, and hosted using render.

TECHNICAL SKILLS

Programming Languages: Python, HTML, CSS, JavaScript, Java, C, SQL, Bash, Elm, Haskell.

Technologies: Git, React, Vue.js, Node.js, Junit 5, JQuery, Bootstrap, UML, OpenCV, Fernet, Linux, Figma.