Tiffany Lin

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B.C.S Candidate Computer Science 2021-2026

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Skills

Languages: Python, C++, C, HTML/CSS/SCSS, Javascript, Racket, Bash, R,
Frameworks: React, Vue.js, Node.js, TensorFlow, PyTorch, ZeroMQ, RabbitMQ
Tools: Docker, Git, Postman, Visual Studio Code, Microsoft Office, Adobe Premiere Pro, Adobe AfterEffects

Experience

ADLINK Technology Inc. – Software Engineer Intern May 2022 – Aug 2022

- Developed a machine learning model with **Python** using DBSCAN to perform anomaly detection of different waveforms
- Conducted user-testing, and recorded and resolved networking bugs of ADLINK's Edge Data Analytics (EDA) platform through the Linux command line and delivered the software using **Docker**
- Worked in a team of 3 to efficiently plan and develop a clean user interface using **Vue**
- Increased functionality of EDA platform by implementing **Python** and **C++** modules that fetches analog input and output, digital input and output data and connected them by using **ZeroMQ**

AutoMetrics Manufacturing Technologies Inc. – Machine Learning Intern Jan 2023 – Present

- Evaluated implementations of deployed models in AutoMetrics's main product, Inspection 4.0, and performed feature analysis
- Modularized and developed frameworks for data preprocessing (e.g. signal denoising filters) on server
- Performing continuous data mining, visualizations and data labeling based on client data
- Leading a team of 2 to develop and implement multiple new machine learning models for Inspection 4.0 to increase accuracy and efficiency of anomaly detection of welding processes using **Python**

Projects

aniBase – Anime Database Oct 2022

React.js, SCSS, MAL API

- Self-taught project that fully utilizes **React.js** and **SCSS** to create an organized database that can search for all anime available, from MAL API, with additional descriptive details for each

DBSCAN Wave Clustering – Machine Learning Clustering Model June 2022

Python

- Developed to differentiate various waveforms for anomaly detection with continuous input of data
- Analyzed input data using Fast Fourier Transform and windows to perform differentiation with the **NumPy** library

BiQuadris – Tetris Clone Dec 2022

C++, XQuartz

- Developed a Tetris clone with special rulesets using **C++**, allowing players to enjoy the game on the Linux command line
- Implemented input, score, and block handling, different level difficulties and managed communication between the model, view, and controller
- Collaborated in team of 3 through smart and efficient use of **Git**, earned a final grade of 97%

Extracurriculars

Video Editor, Community Events and Disaster Relief Volunteer May 2008 - Present

Buddhist Compassion Relief Tzu Chi Foundation

- Packaged 4,000 medical masks, 10,000 medical gloves, 500 face shields for two nursing homes during COVID-19 pandemic
- Fundraised in T&T supermarket for 2010 Haiti Earthquake, 2011 Tōhoku Earthquake and Tsunami, 2013 Typhoon Haiyan, 2015 Nepal Earthquake, 2016 Fort McMurray Wildfire
- Edited 2022 North Toronto Year in Review video to document Tzu Chi's incredible contributions to local communities in 2022

Education

University of Waterloo Sep 2021 – Apr 2026

- Candidate for Bachelor of Computer Science

Bayview Secondary School Sep 2017 – Jun 2021

- International Baccalaureate Diploma Programme | 41/45
- Ontario Secondary School Diploma