Tiffany Lin

University of Waterloo | +1 647 917 8015
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 the DBSCAN clustering algorithm 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**

Projects

Tick – Chrome Extension ○   Oct 2021 – Mar 2022
React.js, Node.js, MongoDB, Chrome API
· Implemented **Node.js** event listeners to accurately track the number of minutes the user spends on each website in Chrome browser and displays a well-labelled table with detailed data
· Stored user data and data aggregation by connecting to **MongoDB Atlas** database
· Designed smooth, clean, user-friendly UI with **React.js**
· Collaborated in team of 5 through smart and efficient use of Git
· Achieved **Top 4** at University of Waterloo's Project Program Event Showcase

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
· Implemented a DBScanner class to efficiently peform sorting and removing of samples with continuous input of data
· Analyzed input data using Fast Fourier Transform and windows to perform differentiation with the **NumPy** library

Extracurriculars

Video Editor, Community Events and Disaster Relief Volunteer   May 2008 - Present
Buddhist Compassion Relief Tzu Chi Foundation
· Edited videos to advocate for vegetarianism, and created documentaries to promote team bonding and cohesiveness
· Packaged 4,000 medical masks, 10,000 medical gloves, 500 face shields for two nursing homes during COVID-19 pandemic
· Participated in community garbage clean-up in Bridgeview Park, Berezy Square, and Mel Lastman Square
· Fundraised in T&T supermarket for 2010 Haiti Earthquake, 2011 Tōhoku Earthquake and Tsunami, 2013 Typhoon Haiyan, 2015 Nepal Earthquake, 2016 Fort McMurray Wildfire

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