

Henry Yip

www.henryyip.net

33-3400 Devonshire Avenue
V3E0L1, Coquitlam, BC
hya59@sfu.ca
778-776-6178

Education

- Post-Secondary: Simon Fraser University Sep 2016 - present
- Bachelor of Applied Science, Major in Computing Science
 - Expected graduation in 2021

Technical Skills

- Languages: C++, C, Python, Javascript, HTML, CSS, PHP
- Methodologies: Simulated agile development, pair programming
- Technologies: Git, React, PostgreSQL/MySQL, MongoDB, Xcode, Figma

Projects

- Findine: Restaurant suggestion web application Nov 2020
- Learned MERN stack development, web deployment with IIS, and MVC architecture in a team project setting
 - Implemented server-side technologies, database integration, and server APIs to fetch, filter, and organize MongoDB documents
 - Developed main client-side functionalities using React JS such as restaurant selection, filtering, and UI elements

- Music Classifier: AI-powered musical genre categorizer Mar 2020
- Research project on the performance of hybrid convolutional neural network architectures with audio spectrograms
 - Designed, optimized, and trained several variants of convolutional neural network architectures using Keras API
 - Examined how data augmentation affects error and training speeds, improving accuracy by over 20% within the same number of epochs
 - Resulted in a model with exceptional performance given the hardware and time limitations, detecting beat-heavy genres with over 80% accuracy

- Personal Website: Interactive portfolio Dec 2019
- A simple website demonstrating HTML, CSS, and Javascript

- EasyGlucose: Diabetes management iOS app Jun 2018
- Implemented and debugged front-end elements such as the application buttons and meal diary features using Xcode
 - Created and maintained design, requirements, and QA documents
 - Co-led a team of 5 developers with no experience in iOS development with effective results and received acknowledgement from local dietitians

Interests & Hobbies

- Reading manga
- Watching sci-fi & animated films
- Basketball
- Pool (tabletop sport)