

ANDREW NGUYEN

// software developer

Experience

Software Developer
Shoplogix Inc.

Sep - Dec 2017

- ▶ Led development of a Chrome OS application with **JavaScript** and **jQuery**, downloaded over 100 times by clients on the Chrome Web Store
- ▶ Designed several new **C#** API endpoints to serve requested data to web application
- ▶ Diagnosed multiple backend issues with **C#** server socket, leading to a 30% increase in successful client socket connections

Junior Researcher
Government of Canada

Jan - Apr 2017

- ▶ Developed data analysis utilities for Wi-Fi sniffers and visualized Wi-Fi signal strengths using **R**
- ▶ Optimized data processing software in **Visual Basic** which resulted in 15% faster processing of sensor log files
- ▶ Performed hardware testing to ensure compatibility with software components

Projects

clipBuddy 
Hack the North

Sep 2017

- ▶ Background phone application that allows users to access utilities from their clipboard, built in **Android Studio** using **Java**
- ▶ Winner of XE.com API prize by successfully implementing currency conversion capabilities

SignBuddy 
CUHacking I

Mar 2017

- ▶ Interactive sign language recognizer using a Leap Motion controller
- ▶ Used **Python scikit-learn** library and hand-generated training data to classify signs, incorporated into a web video client

CollaboPiano 
IEEE Hardware Hackathon

Feb 2017

- ▶ Two piano simulators with **Arduinos** that play identical sound on each speaker as an aggregate of both pianos using force sensors as keys
- ▶ Allows users to collaborate on music from afar using transceivers and the RadioHead library

Therapy Helper 
DeltaHacks III

Jan 2017

- ▶ Web application composed of a **MongoDB** and **Node.js** backbone with frontend done in **Vue.js**
- ▶ Lets therapists provide custom self-assessments to patients, and view all patient data in one place
- ▶ Allows patients to complete their homework more discreetly online

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Skills

Languages: Java, C#, C++, R, HTML5/CSS3, JavaScript, Visual Basic, VHDL

Technologies: Android Studio, Git/Subversion, Firebase, Arduino, Visual Studio, jQuery, Jira

Education

University of Waterloo
Electrical Engineering

2016 - Present

cGPA: 3.92/4.0 - Average: 90.6%

Dean's Honour List

Awards

- 2017 US Computing Olympiad Gold Division
- 2016 Nortel Networks Undergraduate Scholarship
- 2016 University of Waterloo President's Scholarship of Distinction
- 2016 Top 5% on AMC12 (AIME Qualifier)
- 2016 2nd place nationally at ARML

Interests

- Athletics - bouldering, ice hockey, volleyball
 - Music - guitar, saxophone, piano
 - Languages - French, Spanish, Vietnamese
 - Cooking, baking
- (@ @munchmunchmkv)