

# ANDREW NGUYEN

Electrical Engineering Student

## Experience

**Software Developer**  
[Shoplogix Inc.](#)

Sep 2017 - Present

- Led development of a Chrome OS app with **JavaScript** and **jQuery**, downloaded over 100 times by clients on the Chrome Web Store
- Redesigned mobile application written in **React Native** to streamline authentication flow
- 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](#)

September 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](#)

March 2017

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

**CollaboPiano**   
[IEEE Hardware Hackathon](#)

February 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](#)

January 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 conveniently and 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, Node.js, 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 - ice hockey, volleyball, soccer
- Music - guitar, saxophone, piano
- Languages - French, Spanish, Vietnamese
- Cooking, baking  
( @ @munchmunchmkv )