ANDREW NGUYEN

Electrical Engineering Student

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Experience

Software Developer   **Sep 207 - Present**
Shoplogix Inc.
▸Led development of a Chrome OS app with **JavaScript** and **jQuery**, downloaded over 100 times by clients on the Chrome Web Store
▸Redesigned authentication system to phase out basic authentication and enable the usage of OAuth by altering the identity server written in **C#**

Junior Researcher   **Jan - Apr 2017**
Government of Canada
▸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 compatability with software components

Projects

clipBuddy ⌂   **September 2017**
Hack the North
▸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 ⌂   **March 2017**
CUHacking I
▸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

PianoBuddy ⌂   **February 2017**
IEEE Hardware Hackathon
▸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

TherapyHelper ⌂   **January 2017**
DeltaHacks III
▸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

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)