

ANDREW NGUYEN

Electrical Engineering Student

Experience

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 compatability with software components

Projects

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

TherapyHelper

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

Web Robot

ConU Hacks II

January 2017

- Intel Edison **Arduino** robot controlled through user input from a website
- Capture image/move commands communicated to robot by writing to a .txt file with **PHP**, then reading from the board

Basic Assembly Simulator

Personal

November 2016

- A simple parser of RISC assembly instructions, built with **C++**
- Implemented a priority queue to push events based on the required completion time and pop from the beginning
- Locates and highlights where assembly syntax errors occur, if any exist

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🔗 github.com/aanguyen

in linkedin.com/in/aanguyen

Skills

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

Technologies: Android Studio, Git, Firebase, Arduino, Visual Studio, Node.js, jQuery, Jira

Education

University of Waterloo

Electrical Engineering

2016 - Present

cGPA: 3.92/4.0 - Average: 90%

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
 - Machine learning
 - Cooking, baking
- (@ @munchmunchmkv)