ANDREWNGUYEN

electrical engineering candidate

andrew.nguyen@uwaterloo.ca
(647)-918-4240
github.com/aanguyen
linkedin.com/in/aanguyen

Skills

Fluent: Java, C++, VisualBasic, R
Proficient: HTML5/CSS, Arduino, LaTeX
Novice: JavaScript, Python, Node.js, VHDL

Education

University of Waterloo

Candidate for B. A. Sc., Electrical Engineering
2016 - Present
Fall 2016 cGPA: 3.92/4.0
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, big data
- Cooking, baking (still a beginner)

Experience

Junior Researcher — **Ottawa, Ontario**
Communications Research Centre — Jan 2017 - Apr 2017
- Used R to both write data analysis utilities for Wi-Fi sniffers, as well as visualize Wi-Fi signal strengths
- Added functionality to data processing software in Visual Basic
- Performed hardware testing to ensure smooth integration with software components

Computer Camp Counsellor — **North York, Ontario**
City of Toronto — May 2015 - Aug 2015
- Taught campers aged 6-12 basic computer skills including Word, PowerPoint, Excel, and touch typing
- Resolved conflicts between campers and kept order, both in the community centre and while on off-site field trips around Toronto

Assistant Math Teacher — **Toronto, Ontario**
Spirit of Math Schools — Sep 2013 - Jun 2015
- Assisted teacher in explaining concepts to the class, as well as working with individual students to provide more focused help
- Represented the organization professionally whilst dealing with parents.
- Increased class average of timed math drills by 15%

Projects

SignBuddy — **CUHacking I**
github.com/aanguyen/SignBuddy — Mar 2017
Interactive sign language recognizer powered by machine learning using a Leap Motion controller, incorporated into a web video chat client using the Python scikit-learn library.

CollaboPiano — **IEEE Hardware Hackathon**
github.com/aanguyen/collaboPiano — Feb 2017
Two piano simulators that play identical sound on each speaker as an aggregate of both pianos, allowing users to collaborate on music from afar. Built with a pair of Arduino Unos, transceivers, and force sensors as the keys.

TherapyHelper — **DeltaHacks III**
github.com/dtong1113/TherapyHelper — Jan 2017
Web application giving therapists a way to provide custom self-assessments and view all patient data in one place, as well as giving patients a more convenient way to complete their homework. Built with JavaScript, Vue.js and Node.js.

Web Robot — **ConU Hacks II**
github.com/Havkiin/RobotRock — Jan 2017
Robot controlled through user input from a website, that can move and capture/save images on command. Built with Arduino and PHP.