ANDREWNGUYEN

electrical engineer

Contact

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Skills

Conversationally Fluent: Java, C++, HTML5, CSS3
Working Knowledge: R, VisualBasic, LaTeX
Curious Tourist: JavaScript, Arduino, Node.js

Education

University of Waterloo

Candidate for B. A. Sc., Electrical Engineering
2016 - Present
Fall 2016 Average: 90% (Top Decile)

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

Experience

Junior Software Engineer — **Ottawa, Ontario**
Industry Canada — Jan 2017 - Present
Added functionality to spectrum measurement software in Visual Basic, and performed data analysis and visualization of Wi-Fi signal strengths in R. Performed basic hardware tests 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, Excel, Powerpoint, 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 theoretical and applied concepts to the class, as well as working with individual students to provide more focused help when needed. Represented the Spirit of Math organization professionally whilst dealing with parents.

Projects

CollaboPiano — **IEEE Hardware Hackathon**
https://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 the same 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 both 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, Node.js, and standard HTML/CSS.

Web Robot — **ConU Hacks II**
github.com/Havkiin/RobotRock — Jan 2017
Robot controlled through user input from a website, that can capture/save images on click without requiring an internet connection. Built with Arduino and PHP, as well as standard HTML/CSS.

Basic Assembly Simulator — **ECE150**
github.com/aanguyen/assembly-parser — Nov 2016
A simple parser of RISC assembly instructions, and a customized priority queue (without using library functions) to push events based on the required completion time and pop from the beginning, built with C++.