

AUSTIN CHEN

COMPUTER ENGINEERING

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Skills

OPERATING SYSTEMS

Ubuntu

Raspbian

PROGRAMMING LANGUAGES

Java

C++

HTML/CSS/JavaScript

PHP

SOFTWARE

Adobe Photoshop

Adobe Lightroom

Adobe Illustrator

Adobe Premier

Sony Vegas

Microsoft Office

Awards

Apr 2017 University of
Waterloo Centre
for Education in
Mathematics and
Computing

-
**Euclid
Mathematics
Contest**
Certificate of
Distinction; top
25%

Feb 2017 University of
Waterloo Centre
for Education in
Mathematics and
Computing

-
**Canadian
Computing
Competition**
Certificate of
Distinction; top
25%

Summary of Qualifications

2+ years of experience programming in Java through academic courses; completed projects utilizing recursion, search and sort algorithms, and object oriented programming

Directed programming exercises and assignments and explained various programming concepts as an executive member of the Unionville High School Computer Science Club

Projects

Keyboard Security System

Nov 2017

- Implemented C++ code in an embedded system with Onion Omega to create a text editor and display that is secured with a password
- Programmed an OLED display unit using Omega-I2C and Onion OLED Expansion libraries; cross compiled code in Ubuntu and integrated it with Onion Omega hardware
- Interpreted hex dump of raw input signals from USB hub and converted it to ASCII characters

Home Automation System

Jul 2016

- Created a home automation system with Raspberry Pi to wirelessly control power outlets using 433MHz RF
- Utilized timer to automatically turn lights on and off; implemented ability to remotely control lights with mobile devices through a web interface
- Environment: Raspberry Pi, 433MHz RF, Apache, PHP, Raspbian

Employment

Pinway Productions

Markham, ON

Graphic Designer (Co-op)

Sep 2015 to Jan 2016

- Edited and produced video advertisements using computer software such as Adobe After Effects, Adobe Premier, and Sony Vegas
- Designed business cards and company logos in Adobe Illustrator and Adobe Photoshop

Volunteering

Unionville High School

Markham, ON

Peer Tutor

Oct 2016 to Jan 2017

- Mentored students between the ages of 15-17 in several high school subjects including Functions and Physics
- Orally presented lessons during one-on-one sessions with students 2-3 times a week; effectively verbalized and communicated complex math and physics concepts

Education

University of Waterloo

Candidate for Bachelor of Applied Science, 2017-Present

GPA: 3.6/4.0

Hobbies and Interests

- Photography; built a website using HTML/CSS/JavaScript to serve as a digital portfolio for photography works
- Speed Cubing
- Graphic Design