

JONATHAN CHUNG

jt2chung@edu.uwaterloo.ca | (647) 786-9386 | github.com/chjon

SUMMARY

- Proficiency with OOP in Java and C++ from three years of programming experience
- Some experience with HTML, CSS, JavaScript, Python, and VBA
- Strong teamwork and communication skills from various team experiences and leadership roles
- Effective time management skills demonstrated by strong academic standing and extracurricular involvement

EXPERIENCE

Technical Support Intern, *New York Theological Education Centre*, Markham, ON Jul. – Aug. 2016, 2017

- Developed a library database system using Microsoft Access, Visual Basic for Applications, and SQL
- Created a user interface according to employer specifications to perform searches and update records in the database
- Researched and implemented a barcode system for the library using the Code 128 barcode standard

Physics Club President, *A.Y. Jackson Secondary School*, Toronto, ON Sep. 2016 – Jun. 2017

- Worked with the physics club executive team to plan lessons and experiments in order to promote physics
- Acted as a peer tutor to help other students improve in their physics classes

Light Board Operator, *A.Y. Jackson Secondary School*, Toronto, ON Oct. 2014 – Jun. 2017

- Operated lighting equipment for school events, working in coordination with the high school stage crew

PROJECTS

Molecularize (*Java*) – Chemical computing library

- Developed a system to store and retrieve data about elements of the periodic table
- Implemented automatic calculation of molar mass given a molecular formula

Blockgame (*Java*) – 2D free-roam platformer game

- Created dynamic level generation, saving, and loading to reduce memory usage
- Implemented vector-based bounding-box collision detection
- Utilized multithreading for simultaneous entity movement and world interaction

DeltaT (*C++*) – Reaction time game

- Implemented hardware-interfacing infrastructure for a Linux system on a chip
- Designed an interface to enable time-dependent code execution

INTERESTS

- Redstone in Minecraft
Built a functional Rubik's cube
- Rubik's cubes
3×3 personal best of 45 s
- Physics engines
- Sudoku
- Recreational mathematics

AWARDS

Term Dean's Honours List, *University of Waterloo*, Toronto, ON 2017

Certificate for Excellence in Physics, *A.Y. Jackson Secondary School*, Toronto, ON 2017

Top Quartile, ECOO Round 2, *ECOO*, Toronto, ON 2017

Queen's Venturer Award, *Scouts Canada* 2016

EDUCATION

Candidate for Bachelor of Applied Science, Computer Engineering, *University of Waterloo* Sep. 2017 - present

Fundamentals of Programming: 100% Average: 91%