



# BRANDON APERROCHO

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## EDUCATION

### University of Toronto

Sept. 2014 – June 2019

#### Honours Bachelor of Science – Information Security Specialist & Minor in Mathematics

##### Relevant Coursework Completed:

- Data Structures and Algorithms
- Databases and Web programming
- Operating Systems
- Computer and Information Security
- Computer Networking
- Software Design and Engineering
- Computer Complexity and Computability
- Machine Learning and Data Mining
- Computer Forensics
- Algorithm Design and Analysis
- Artificial Intelligence
- Algebraic Cryptography



## TECHNICAL SKILLS

##### Programming Languages:

Python, Java, C, Bash, Perl, Scheme, JavaScript

##### Technologies and Tools:

Windows, Linux, Git, LaTeX, Subversion, Wireshark, AXIOM, VMWare, KaliLinux, JUnit

##### Development Methods:

Scrum, Agile, UML, OOP, Functional Programming



## PROJECTS

##### Penetration Testing and System Hardening

- Tested a vulnerable website hosted on a local VM using the OWASP Top 10
- Wrote an in-depth step-by-step report which could be followed by another individual with any amount of technical background to reproduce the discovered results

*Mediums and Methods:* Linux, PHP, HTML, JavaScript, SQL, Wireshark

##### Software Engineering (Game Development): Zombie Town

- Created a 2D top-down shooter, with the objective being to survive the endless waves of zombies
- Divided work evenly and catered the tasks to the skills of all members in the group in order to maximize workflow

*Mediums and Methods:* MySQL, Tiled, Java (Slick2D, LWJGL, JORBIS), PivotalTracker, MVC

##### Software Design: JShell

- A command line application that creates a fresh mock file system on each instance starting from root
- Implemented multiple POSIX commands such as: mkdir, cd, cp, rm, etc
- *Mediums and Methods:* Java, Scrum, JUnit, Subversion



## EXPERIENCE

##### Think Green Lighting (TGL) – Project Manager

Sept. 2017 – Sept. 2018

- Planned meetings, and devised plans to complete a part of a multimillion-dollar project
- In charge of leading a team of electricians, training new recruits, and ordered all necessary supplies
- Wrote daily reports to update key stakeholders about the progression of the current tasks at hand

##### Think Green Lighting (TGL) – Work Site Supervisor and Labor Worker

June 2016 – Aug. 2016

- Managed multiple tasks and assigned them to others to ensure optimal workflow
- Ensured that all safety and company regulations were being followed by all workers on site
- Documented all activities and progress, then sent a final draft to the Project manager



## ACTIVITIES & EXTRACURRICULARS

##### Ethical Hacking – Capture the Flag Competition

- This competition used Krypton Wargames, which is based on cryptography and cryptoanalysis
- Participated in the competition and was the team to capture the most flags in the allotted time

##### Spotify Podcast

- Investigate topics that everyone in the podcast can relate to and talk about
- Do some research to stay up to date with world, tech and gaming news
- Add input and opinions about topics when discussing as a group on the podcast