EXPERIENCE

**Unix Shell Programmer (Co-op)**, *FundServ Inc.*  **Jan 2016 – Apr 2016**

* Created automatic daily processes to extract information from various management systems (Uptime, NetBackup, PIKT, Control M) and generate reports in HTML format using shell scripts and crontab
* It produces accurate and up to date reports that IT staff can use in their everyday work.  It allows people to access information on servers without having to ask SysOps to login to the server and email it to them.
  + Within an hour of the launch of the site, over the half of the employees at fundserv accessed the site to view information.
* Assisted in migrating the process of collecting, aggregating and re-distributing data among 250 virtual machines in production to a backup master server

EDUCATION

* University of Waterloo (Class of 2020)
  + 1A in Mechatronics Engineering, Student ID#: 20619470
  + Recipient of President’s Scholarship of Distinction
* Harbord Collegiate Institute (2012 – 2015)
  + Grade 12’s average: 95%
  + In Honor Roll in 3 consecutive years

STUDENT CLUBS

* President, Ping-pong Club (Grade 12)
  + Coordinated schedules for weekly ping-pong sessions and organized monthly ping-pong tournaments for 20 members
  + Communicated with club members with regard to changes in session schedule and tournament player pairing
* President, Technology Club (Grade 12)
  + *Technology Club’s mission was to develop an application to update the information on the school’s digital billboard*
  + Presented about Technology Club in Orientation Week’s Clubs Day in front of 500+ students and teachers
  + Organized members into different teams (i.e. Development, Graphic Design, Content Editing, etc.) and appropriately delegated tasks based on their skills and interests
  + Organized team meetings to follow up with team progress
* Mechanical Associate, Robotics Club (Grade 12)
  + *Harbord Robotics Team competed in 2015 FIRST Robotics Competition Game “Recycle Rush”, where it is required to design and create a robot which could stack totes on a designated platform, cap the stacks with recycling containers and properly dispose litter.*
  + Assembled the pulley system attached to the arm of the robot to pick up the object.
* Senior Member, Bike Club (Grade 11)
  + Built a mountain bike and provided assembling instruction to junior members
  + Learned about the shock absorbing effect of the rear suspension on certain mountain bikes

PERSONAL PROJECT

**Ginger Rewards (Apr 2016)**

*This is loyalty program for Ginger Restaurant – Wellesley/Church, Toronto*

* Developed and deployed a user-friendly Java web application using HTML, Jquery, Spring MVC, JDBC connector and MySQL to process point transactions
* Assisted in the design of customer and transactional databases
* Improved code base through rigorous review process using Review Board and Git

**Lego NXT Salt Spreader (Nov 2015)** *– In a team of 4 members*

* Built a Lego robot that has touch sensors, color sensors and motor encoder
* Programmed the robot in C++ to spread salt on pre-determined route, avoid obstacles, return to pre-determined destination upon the depletion of salt, and track the distance travelled

**Smart Battery Charger (Aug 2015)**

*This system automatically charges and discharges when a laptop’s battery level reaches certain threshold.*

* Designed and assembled the circuit board
* Set up and controlled Raspberry Pi running Linux OS via SSH
* Modified a Git project from GitHub to start simple web services and control the relay
* Wrote a WPF application in C# using Visual Studio 2015 to control the Raspberry Pi by sending HTTP requests

SKILLS

Languages: C++, C#, Java, Python, PHP, MySQL, HTML & CSS, JQuery, JavaScript, DrRacket, bash

Technologies: Visual Studio, Eclipse, NetBeans, Spring Tool Suite, VMware, SecureCRT, git bash

HOBBIES

* Reading:
  + Read 11 books in the summer 2015
  + My favourite book is The Power of Habits by Charles Duhigg. It helped me change my habit by substitute bad routine for something else that is just rewarding.
* Basketball:
  + Started playing since Grade 6 and committed myself to practicing for 15 hours a week on average
  + Selected to be in Harbord’s Basketball Team from Grade 10 to Grade 12
* Volleyball:
  + Started playing in Grade 11 and Selected to be in Harbord’s Volleyball Team after 2 months for 2 consecutive years
  + Promoted to Starter in the end of Grade 12

VOLUNTEER

* Toronto Public Library
  + Designed posters for promoting the library’s events on Saint Patrick’s Day
  + Initiated Summer Reading Challenge among volunteers