

EMPLOYMENT

Unix Developer, FundSERV

Jan – Apr 2016

Ops Portal: Designed and implemented a reporting system that provides accurate and up-to-date server information for 33+ IT staffs at FundSERV on a daily basis. Within one hour after its launch, the system served 50% of FundSERV employees.

- ✓ Composed ksh and bash shell scripts to extract/compile information from Solaris, Linux, CentOS servers and update reports daily using crontab and Control M.
- ✓ Designed cross-browser friendly UI and navigation with HTML/CSS to encourage usage of reports.
- ✓ Assisted in migrating the process of collecting, aggregating and re-distributing data among 250 virtual machines in production to a backup Solaris server.

TECHNICAL EXPERIENCE

- ✓ Languages: Python, bash, Java, C++, C#
- ✓ Web technologies: HTML & CSS, Bootstrap, JQuery, JavaScript, AngularJS, SQL
- ✓ Tools: Visual Studio, Eclipse, Spring Tool Suite, Notepad++, GitHub

LEADERSHIP EXPERIENCE

Organizer. Reading Challenge (July 2015 – Aug 2015):

- ✓ Initiated the challenge to encourage children and teenagers towards reading and learning.
- ✓ Organized weekly progress check-up for up to 10 participants.
- ✓ Attracted attention from 20+ people including teachers and peers.

President. Ping-pong Club (Jan 2015 – June 2015):

- ✓ Publicized the club, which increased the total number of participants by 16.
- ✓ Organized monthly ping-pong tournaments for up to 20 members.
- ✓ Communicated with club members with regard to changes in session schedule and tournament player pairing.

President. Technology Club (Sep 2014 – Oct 2014):

- ✓ Presented about Technology Club in 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.
- ✓ Coordinated scheduled team meetings to follow up with team progress.

EDUCATION

Bachelor of Mathematics (Co-op, 1B), University of Waterloo

Sep 2015 – current

- ✓ Working towards Bachelor of Computer Science degree
- ✓ Average 1A: 79.1%
- ✓ University of Waterloo President's Scholarship of Distinction (2015): 95%+ admission average

ACHIEVEMENTS

- ✓ University of Waterloo President's Scholarship of Distinction (2015): 95%+ admission average.
- ✓ Communications and Teamwork were given the highest ranking – Superior Performance (6-7 out of 7) in the Student Performance Evaluation at FundSERV.
- ✓ Presented the Ops Portal project to the System Operations team and received excellent feedback.
- ✓ Read 11 books in the summer 2015.

PROJECT

5-minute-book (May 2016 – current): Web application | HTML & CSS. Bootstrap. jQuery. Python. Django

- ✓ Designed a responsive user interface of the website that adapts to multiple types of displays ranging from desktop screen to mobile devices.
- ✓ (in progress) Developing a web application using Django framework to let users access books' summaries.

brainDump (May 2016 – current): Java application | Java. Eclipse IDE.

- ✓ Developed a to-do list application inspired by David Allen's Getting Things Done™ System in Java implementing Swing Java for Graphical user interface (GUI).

GingerRewards (Jan – Apr 2016): Web application | Azure. JDBC. MySQL. Vagrant. Spring MVC.

- ✓ Developed and deployed an online loyalty program for Ginger Restaurant (located in Toronto), which consists of: [1] a web interface with authentication for the restaurant manager and staffs to input point transactions, and [2] customer and transactional databases.
- ✓ Improved code base through rigorous review process using Review Board and Git.

safetyBot – team of 4 members (Nov 2015 – Dec 2015): Lego model | C++. RobotC.

- ✓ Programmed a Lego model that spreads salt on pre-determined route, avoids obstacles, returns to pre-determined destination upon the depletion of salt, and tracks the distance travelled.
- ✓ Designed a helper function in Robot C that determines the sufficient amount of salt.
- ✓ Achieved milestones before deadlines; Scored 92% for project management.

smartBatteryCharger (Aug 2015 – Sep 2015): Windows desktop application | Linux. C#. Visual Studio.

- ✓ Developed a WPF program that keeps track of the battery percentage of device and sends HTTP requests to Raspberry Pi to prevent device from overcharging.
- ✓ Set up and controlled Raspberry Pi running Linux OS (Debian) via SSH.
- ✓ Modified a GitHub project that uses the infrastructure of Raspberry Pi to controls electrical switches.

PRAISES

"I thought Phat would be intimidated and give up on the project, but he quickly grabbed the concepts. Despite limited guidance from me, he took initiatives to do research and learn about Raspberry Pi, C#, and Linux. What impressed me even more was that whenever Phat encountered technical challenges, he would exhaust the resources on Google before asking me for help. He gained confidence and comfortability with command lines in about a week, and overall got the job done much faster than what I expected from a newbie."

– Hoang Minh Le, intern at Microsoft and Amazon

"I have to keep in mind that Phat accepted the challenge of the job without much experience and knowledge in the field of Unix scripting. Although I would have liked him to be more thorough in his testing before deployment of new code, he did deliver the end product which was a brand new web site for Operations. We had no web site when he started and now we have a fully automated operational site with automated fail-over capability. I did enjoy working with Phat. He was very enthusiastic and was passionate about his work. He fitted perfectly in the corporate culture and the team."

– Gaetan Boudreau, System Operations Manager at FundSERV