PHAT D. TRAN

(647) 607 - 4207 | pdtran@uwaterloo.ca | github.com/pdtran3k6 | https://phattran.azurewebsites.net/

EXPERIENCE

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

- ✓ Composed **ksh** and **bash shell scripts** to extract information from various management systems (**Uptime**, **NetBackup**, **Control M**) and generate reports daily using **crontab**
- ✓ Designed **HTML & CSS** websites to navigate to the generated system reports hosted on a master **virtual machine**

  *This project enables IT staffs to directly **access accurate and up-to-date information** on servers without depending on System staffs. As a result, it increases the efficiency of the IT department's operations. The report served over **50% of FundSERV employees** within **1 hour** after the launch of this project.*
- ✓ Assisted in migrating the process of collecting, aggregating and re-distributing data among **250 virtual machines** in production to a backup master server

PROJECTS

Ginger Rewards (Apr 2016)

A loyalty program for Ginger Restaurant – Wellesley/Church, Toronto

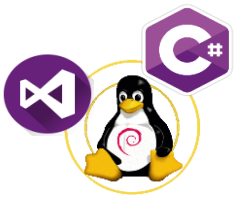
- ✓ Developed and deployed a user-friendly **Java web application** using **HTML & CSS**, **JQuery**, **Spring MVC**, **JDBC connector** and **MySQL** to process point transactions
- ✓ Assisted in the design of customer and transactional databases
- ✓ Improved code base through rigorous review process using **Review Board** and **Git**
- ✓ Involved in the review process of back-end codes that implement **JPA Providers** such as **Hibernate** and **Spring Data JPA**, to access the database through database tools such as **HikariCP** and **H2**

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

- ✓ Built a Lego model that has touch sensors, color sensors and motor encoder
- ✓ Programmed the model in **RobotC** (**C++ based**) 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)

The device 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 (Debian)** 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**

EDUCATION

Honours Bachelors of Mathematics, 1B Mathematics | Average in 1A Mechatronics Engineering: 79.1%

LANGUAGES & TOOLS

Languages: C++, C#, Java, Python, MySQL, HTML & CSS, JQuery, JavaScript, DrRacket, bash, ksh
Tools: Visual Studio, Eclipse, Spring Tool Suite, VMware, SecureCRT, git bash