PHAT D. TRAN

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**EXPERIENCE**

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

* [](http://www.google.ca/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwiTtYvV47HMAhVJsIMKHeAZC80QjRwIBw&url=http://cargocollective.com/patrickkevinmoran/FS-Branding&bvm=bv.120853415,d.amc&psig=AFQjCNGE1ASPbJnwkOLmqJvwKvllHdGyfQ&ust=1461948211874826)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*

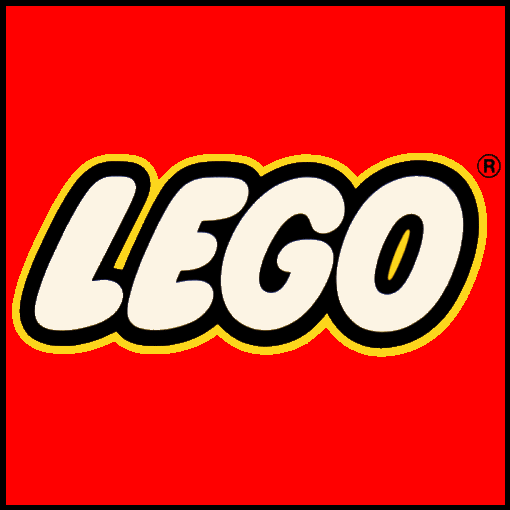
* Developed and deployed a user-friendly **Java web application** using **HTML & CSS**, **JQuery**, **Spring MVC**, **JDBC connector** and **MySQL** to process point transactions



* 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

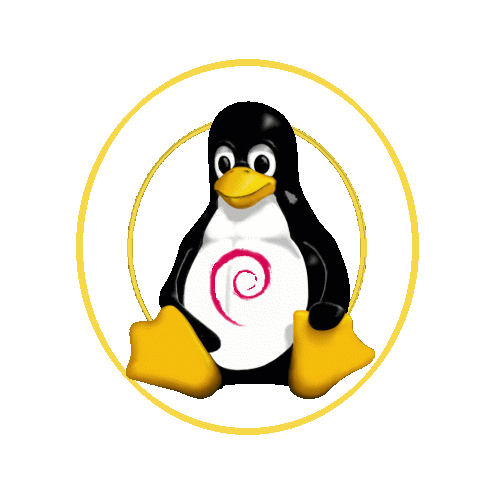


* Programmed the model in **RobotC** (**C++ based**) to spread salt on pre-determined route, avoid obstacles, return to pre-determined destination upon the depletion of salt, and track the distance travelled

**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%

**HOBBIES**

