

# Shunqi Lu(Liam)

4A Computer Science | 20547736  
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## EDUCATION

**UNIVERSITY OF WATERLOO**  
**CANDIDATE FOR BACHLOR OF**  
**COMPUTER SCIENCE, CO-OP**  
 Sept, 2014 to Present

### RELEVANT COURSES

|Object-Oriented Software Development  
 |Algorithm Design and Data Abstraction  
 |Functional Programming  
 |Data Structures and Data Management  
 |Operating Systems  
 |Distributed System  
 |Computer Networks  
 |User Interfaces

## SKILLS

### PROGRAMMING

Over Two years:

Java • C++ • Visual Basic

Over One year:

MySQL • VisualForce •  $\text{\LaTeX}$   
 Bash • MIPS • Racket • C

Familiar With:

Kotlin • Gradle • Hiberbate • Maven  
 • HTML • CSS • JavaScript

### PLATFORMS

Android Studio • Linux • Git  
 Jboss • Jira • Jenkins  
 Docker • F5 • Salesforce

## VOLUNTEER

### ROGERS TV

**CAMERAMAN AND SWITCHER**  
 Dec 2012 - Mar 2013 | Kitchener, ON  
 |Recorded On-Air OHL games in a  
 fast-paced environment  
 |Demonstrated exceptional organizational  
 skills and ability to correctly follow  
 instructions

### ST MARY HIGH SCHOOL

**TEACHING ASSISTANT**  
 Feb 2013 - June 2013 | Kitchener, ON  
 |Demonstrated patience and ability to  
 explain technical concepts to others

Note: See more of my projects and  
 details on my website

## WORK EXPERIENCE

### OPENTEXT | MOBILE APPLICATION DEVELOPER

Sep 2017 – Dec 2017 | Waterloo, ON

- Developed Sessions Page in OpenTextCore Android app that allows users to view and modify existing sessions
- Implemented Public Link Share Page in OpenTextCore app, allowing user to share files with external users through universal links
- Advanced in Retrofit, OkHttp, Gradle, and SQLite libraries
- Investigated using Docker to build Android Applications

### LOYALTYONE | SOFTWARE DEVELOPER

Jan 2017 – May 2017 | Toronto, ON

- Developed a java batch process for AirMiles which fetches data from AMMIS database and calls Moneris API to complete Pre-authorized transactions
- Initiated an investigation of an time out issue in distributed systems, which has been present since three years ago
- Built loggers using Log4j to monitor Stored Procedure execution time for Enterprise Transaction Services(ETS), significantly improved its transparency
- Advanced Linux, Jboss and F5 skills through supporting ETS Jboss server migration

### SHAVER INDUSTRIES | SOFTWARE DEVELOPER

May 2016 – Sep 2016 | Kitchener, ON

- Wrote Apex code to automate the online order confirming process using SOAP API and REST API
- Wrote Apex scripts that allow data to be shared among different apps in Salesforce, greatly reducing time by eliminating human input of duplicated information
- Optimized Quting Calculator in VBA, Apex and VisualForce, incredibly reduced manual work to one tenth of what previously required

## PROJECTS

### SHOPIFY CHALLENGE | JAN 2018

- An Android project in Java allows the shop owner to browse the current product list and inventory details
- Advanced in Retrofit, Java Concurrency library, and Caching

### RPC | JUL 2017

- A simplified Remote Procedure Call system in C++ which includes a client, a sever and a binder
- Concepts Used: Socket Programming, Cacheing, Two Phase Commit

### OS161 | DEC 2016

- A simplified Operating System in C++
- Concepts Used: Synchronization, Socket Programming, Memory Management

### MONOPOLY | NOV 2015

- A Monopoly-like game based on UW campus that involves 2000 lines of codes and 20 classes
- Concepts Used: Encapsulation, Polymorphism, Singleton Pattern, Moudle-View-Controller Pattern, Factory Pattern