

# LARRY SHI

## Software Developer

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## EXPERIENCE

### Software Developer in Test - Intern

#### Merchant Link

📅 May 2019 – August 2019    📍 Ottawa, ON

- Used Python to create scripts that simulates behaviors of a pinpad to help automate testing of company product.
- Performed stress testing on company product to evaluate its ability to process transactions.
- Used Python to create an experimental tool that captures product network activities and diagnose for pinpad issues.

## PERSONAL PROJECTS

### PyBoardGame

📅 July 2018 – September 2018    📍 Ottawa, ON

- A web project written in Python (Flask) that allows users to play simple board games on the website. Including Tic Tac Toe and Sudoku.
- A computer player is implemented using minimax algorithm in Python while the rest of game logic is implemented in JavaScript.
- The website also contains well documented game strategies pages.

### NBA Daily

📅 April 2019 – Ongoing    📍 Ottawa, ON

- A web project written in Python (Django) that scraps NBA stats from NBA website using API and displays the data in a more accessible way.
- Used SQLite alongside Django model to store and access all scrapped data.
- Currently trying to integrate React with Django Rest Framework to create better looking and functional web pages.

### Android Game

📅 October 2019 – December 2019    📍 Toronto, ON

- An Android app that contains 3 distinctive games, a functional user authentication system, as well as game save/resume feature.
- Learned Android development in a week and built the app using Java, Gradle, and SQLite.
- Employed SOLID principles, MVP architecture and other object-oriented design patterns.
- Designed the project, oral presentation, UML diagrams in collaboration with five other peers.

## EXTRACURRICULAR ACTIVITIES

### Volunteer

#### Stillwater Creek Retirement Home

📅 July 2014 – June 2018    📍 Ottawa, ON

- Perform music with a group named "Music in Motion" in the retirement home.
- Organized "Music in Motion" performances.
- Help kitchen serve out ice creams to seniors in the retirement home.

## SKILLS

Python Django Flask PyGame  
Tkinter Matplotlib Multithreading  
Sockets Hypothesis Pandas

Java Swing JUnit Maven/Gradle  
Android

Web Development JavaScript React  
CSS HTML Bootstrap JQuery

R dplyr readr plyr ggplot2

Git SQLite Heroku CircleCI  
LaTeX VMWare SOLID MVP

## EDUCATION

🎓 B.Sc., Computer Science  
**University of Toronto**

📅 2018 – 2022    📍 Toronto, ON

GPA: 3.85/4.0

Current CS/CS Related Courses

- Software Design (with Java)
- Computer Organization
- Introduction to Theory of Computation
- Software Tools and Systems Programming (with Bash and C)
- Introduction to Databases
- Data Structure and Analysis
- Probability with Computer Applications (with R)

## AWARDS & CERTIFICATES

"Learn to Program: The Fundamentals" Statement of Accomplishment

**University of Toronto MOOC**

📅 January 2014    📍 Ottawa, ON

"An Introduction to Interactive Programming in Python" Statement of Accomplishment With Distinction

**Rice University MOOC**

📅 June 2014    📍 Ottawa, ON

Silver Medal (>90% average)

**Earl of March S.S.**

📅 2015 – 2018    📍 Ottawa, ON