

# Guyu Li

Computer Science, Co-op Program in University of Waterloo

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## SUMMARY OF QUALIFICATIONS

- Skilled in writing desktop and mobile applications: Java, C/C++, C#, Python, Swift
- Experienced with web development: HTML5, CSS3, jQuery, React.js
- Familiar with various IDEs and code editors: Xcode, IntelliJ, Visual Studio, VS Code, WingIDE
- Proficient in database programming: MS SQL, Oracle DB, SQL/MX
- Good knowledge of Operating Systems: Windows, Linux, macOS
- Experience using Version Control tools: Git, SVN

## RECENT WORK EXPERIENCE

### Asigra Inc.

Jan 2017 - Apr 2017

#### Software Developer

- Designed and implemented a multi-threaded Java application with User Interface independently
- Used WinAPI to develop Windows Service and ReportEvent functionality
- Implemented a new API function for Asigra's VMware library
- Got "Outstanding" evaluation due to great contributions to the team

### CIBC Payment Hub

Sep 2017 - Apr 2018

#### Application Developer

- Upgraded the back-end payment systems (Payment Hub, HP NonStop Server, SQL/MX database) to support a new credit card
- Wrote Shell/C++ programs which retrieve data from database/files and generate stats report automatically
- Designed and implemented VBA projects in Microsoft Excel
- Got "Excellent" evaluation due to good work ethics and quick-learning abilities

## PROJECTS

### Asigra VAIO Filter Deployment Tool (NetBeans, Java)

Feb 2017 - Apr 2017

I designed and implemented this Java application to act as an interface for user to install Asigra IO Filter onto a certain cluster of a vCenter Server.

Framework: vSphere Infrastructure Java API

### UWaterloo ClassBox (Xcode, Swift)

Sep 2017 - Apr 2018

<https://github.com/z3an/iphone-app-uw>

This is a consolidated IOS app built by my friend and me, which integrates various UW applications/websites together, including Course Search, Course Schedule, Academic Requirements, UW Quest, UW Learn, etc.

Framework: UW Open Data API, JTAAppleCalendar

### CS Course Search Website (HTML5, CSS3, jQuery)

Aug 2017

<https://github.com/guyuli/CSCourseSearch>

This is a website that can retrieve information of all CS courses from UW Open Data API and display course details such as course name, units and description in a beautiful and usable format.

[Click here to visit this website.](#)

For more projects, please visit my GitHub account: <https://github.com/guyuli>

## EDUCATION

### University of Waterloo

Sep 2014 - Apr 2019

#### Bachelor of Computer Science

Expected Graduation on April 30, 2019

## COURSES

### CS 240: Data Structures and Data Management

Queue, BST, Hash

### CS 246: Object-Oriented Software Development

Shell, C++, Git

### CS 341: Algorithms

Divide and Conquer, Greedy, Dynamic Programming, Graph Theory (BFS, DFS, Kruskal's, Dijkstra's, Prim's, Bellman-Ford), NP-Completeness

### CS 349: User Interfaces

Java, HTML5, CSS3, jQuery

### CS 350: Operating Systems

Multi-Programming, Concurrency, Memory Management, File Systems

### CS 486: Introduction to Artificial Intelligence

Uninformed Search, Informed Search, CSP, Backtracking Search