

2B Computer Science | 20562478 nian.liu@uwaterloo.ca | (905)616-8367

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

PRIMARY

C/C++, C#, JavaScript, Bash

FAMILIAR

Java, Python, CSS, HTML

OTHER LANGUAGES

JSON, XML

LIBRARIES AND APIS

XNA Game Studio, Seleniuim, UNunit, JQuery, Newtonsoft.Json

APPLICATIONS

SQL Server Management Studio, Photoshop, Office 365, Confluence, Jira. Subversion

OPERATION SYSTEMS

Microsoft Windows, Mac OS

FDUCATION

UNIVERSITY OF WATERLOO

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE

Step. 2014 - present Waterloo, ON

RELEVANT COURSES

COMPUTER SCIENCE

Computer Organization & Design

Data Structures & Data Management

Elementary Algorithm Design & Data Abstraction

Foundations of Sequential Programs Logic and Computation

MATHEMATICS

Intro to Combinatorics

Linear Algebra

Statistics

WORKING EXPERIENCE

SOFTWARE DEVELOPER/ANALYST | TRAPEZE GROUP

January 2016 - April 2016 Mississauga, ON

- Worked on Novus platform, an enterprise-level web software system for public transit closely with core Research and Development Team.
- Improved and extended test framework for Novus using Selenium and NUnit with C# language.
- Implemented functionaries including database management, data-driven-test generation and failure log into the test framework.
- Discovered and investigated several bugs and defects in product-level applications.
- Assisted co-op colleague with Java and JavaScript web development

OFFICE 365 DEVELOPER | 2TOLEAD

May 2015 - August 2015 Remote

- Worked on proof of concepts of utilizing Microsoft Graph in Office 365.
- Created Sharepoint JavaScript web part snippets with Microsoft Graph data.
- Used Ajax and REST API services to retrieve and post data in Sharepoint.

PROJECTS

CC3K | A ROGUE-LIKE TERMINAL GAME IN C++

December 2015 | University of Waterloo

- Designed the whole architecture for the project
- Applied MVC, Decorator and Visitor design patterns.
- Created an UML of design.
- Implemented start menu with ASCII arts
- Implemented the game with memory-leak-free and exception-free guarantees

SHAREPOINT QUEST | A SHAREPOINT MANAGEMENT WEB APP

August 2015 | 2toLead

- Sharepoint web part for users to post and check quests.
- Built a Sharepoint customize list to store user guest data.
- Utilized Microsoft Graph to automatically check quest status.

POKEMON BATTLE | A POKEMON THEMED 2-PLAYER GAME IN C# December 2013

- Used XNA Game Studio 4.0 Framework.
- Implemented sprite action animations, game music and sound effects.
- Offered two input options include keyboard and Xbox controller.

GRANTS AND AWARDS

PRESIDENT'S SCHOLARSHIP

University of Waterloo | 2014

\$2,000 entrance scholarship for achieving admission average 90% - 94.9%.

CANADIAN COMPUTER COMPETITION

University of Waterloo | 2014

Ranked in the top twenty-five percent of contestants.