Che-Shao (Bill) Chen

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EDUCATION AND QUALIFICATIONS

Bachelor of Science in the division of software engineering, department of Innovative Information and Technology, Tamkang University, Taiwan (R.O.C.), 2015

Master of Software Engineering, Concordia University, Canada, 09/2017-present

- Achieved most master degree projects with high marks
- High grades for the late half of the master program
- Awarded in the Innovation and Entrepreneurship Competition at Tamkang University Project by designing a mobile app to assist blind people with navigation

TECHNICAL SKILLS

Programming	Development	Web	Database	Others
Java ***	JetBrains **	HTML/CSS ***	ER Diagram **	UML ***
Python **	Eclipse ***	Django *	MySQL **	Windows **
C/C++ *	Git ***	Flask **	MSSQL *	Linux **
C# **	Anaconda **	React **	Spark **	XML *
JavaScript **	Maven **	REST *		JUnit ***
R **	Bash ***			Keras *

* indicates the level of experience (*** - advanced   ** - intermediate   * -basic)

RELATED EXPERIENCE

SOEN 6491 - Software Refactoring   2019

The master research project, Concordia

- Analyzing the impact of refactoring on test cases
- Filtering refactoring types of changes in commits into pure refactoring changes from changes that mix with external behavior changes.
- Using Python script to find the refactoring changes that covered by test cases
- Deep study in the version control system and commit behaviors of developers

SOEN 691 - Mining Large Software System Data for DevOps

The master research project, Concordia   2019

- Developing an approach with Python Spark to analysis and identify log lines of a system
- The approach can analysis the static and dynamic data of each log lines in the system without any source code
- Applying Web-Service with React and using Flask on Lab servers for coordinating multiple servers to deal with the calculation of the approach analysis.
- Submitted the research paper "Logram: Efficient Log Parsing Using n-Gram Dictionaries" to IEEE Transactions on Software Engineering

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SOEN 6461 - Software Design Methodologies

The master course project, Concordia   2019

- Analyzing an existing large project with its own design and structure
- Drawing UML, hierarchy, sequence, and other diagrams for the whole system
- Studying classes and codes for design patterns and some CK metrics.
- Improving the design and structure of the project by adding the Visitor pattern

SOEN 6441 - Advanced Programming Practices Course Java project

The master course project, Concordia   2018

- Developed a Java project of a strategy game from scratch
- Fulfill all the requirements, design, architecture, and implements of the project
- Implementing the project with architecture and design patterns such as MVC and Observer
- Covering all the functions with unit test cases and API documents
- Developed a complete Version control system with Github for the project

SOEN 6431 - Software Comprehension and Maintenance Course Java project

The master course project, Concordia University   2017

- Maintaining and adding new features for a Java UML editor(Violet Editor)
- Implementing 3 new functions for the UML draw graphs like calculate the Coupling Between Objects(CBO) between classes.
- Refactoring and adding new test cases for the new features and related previous codes.

Virtual Touring System for Lanyang Campus, *Java, C#, JavaScript*

The undergraduate project, Tamkang University   2014 – 2015

- Applied virtual reality for guiding visitors over the Internet
- Participated in designing speech recognition algorithms implemented using C#
- Designed the user interface with JavaScript and Java
- Developed strong communication skills through teamwork
- *Presented at the 2015 International Conference on Information Management*

Advanced Game Design and Development, *Java, JavaScript, HTML5*   Feb – April 2014

Course Project, Tamkang University

- Developed knowledge of game development with using the Search algorithms
- Demonstrated a great understanding of software programming by implementing several classic games in Java
- Developed web-based GUI for games using Javascript and HTML5

Bus Booking and Management System, *Java, MySQL, UML, AWT*

Course Project, Tamkang University   Sept-Dec 2014

- Participated in designing and implementing a bus booking system
- Applied software modeling techniques such as UML for software design