Tianhui(Alina) Huang

University of Waterloo,Master Student
Electrical and Computer Engineering
summary: A positive person loves software

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SUMMARY OF QUALIFICATIONS AND TECHNICAL SKILLS

Programming languages:JAVA, C++, C, SQL, HTML, CSS, Matlab,Python.

Solid understanding in Object-Oriented programming

Strong knowledge of algorithm and data structure

Mobile application for both Android platform and IOS platform

Hand-on experience in web development and database

Tools: Visual Studio, Eclipse, Xcode, Git, and Android Studio

Creative, self-motivated, fast learner,easy-going and good to cooperate with

EDUCATION

1. Candidate in Master of Software Engineering(GPA: 3.7), University of Waterloo, Canada (2014/09-2016/4) .

2. Bachelor of Electrical and Computer Engineering(GPA: 3.9), Shenyang Jianzhu UNIVERSITY, China (2010/09-2014/07).

RELEVANT PROJECTS

Hospital file system

ECE 651 Foundations of Software Engineering, 2014 September-2014 December

Designed front end (HTML, CSS) and back end (JAVA)

Built database for a hospital management system using MySQL

Data mining

Implemented SVM, Bayes, Decision Tree, K-NN for classification

Implemented agglomerative algorithms, k-means algorithm, fuzzy c-means algorithm for cluster

Used different evaluation metrics

Preprocessed with word stemming, tokenization and stop-word filter

Security cameras systems

ECE 650 Methods and Tools for Software Engineering, 2014 September-2014 December

Solid understanding of algorithm and coding with C and Python

Experienced with multithreading, process, inter process communication programming

Familiar with Linux

Building an Automated Bug Detection Tool

ECE 653 Software Testing, Quality Assurance, and Maintenance, 2015 January- 2015 May

Developed a tool to detect bugs in a Java program on Linux machine and analyzed the detection results

Used JUnit and Valgrind to find bugs

Fulfilled unit tests and integration tests in python and JAVA

Database System

Designed database using ER model, and translated the ER model by creating necessary relations(MySQL) and wrote procedure, trigger, DDL, and DML

Implemented the management system in Java using JDBC as the connection API

Mobile APP for both Android and IOS

Undergraduate Project 2013 September-2014 May

Android: Exam System, Message chat

IOS: Word Guessing Game, Calculator

Designed business logics and UI

Developed under android studio and Xcode

Personal website

Undergraduate Project 2013 January- 2013 May

HTML for the web content, css for the layout and javascript for the animation

Used Bootstrap and brackets

WORK EXPERIENCE

Teaching Assistant, Shenyang Jianzhu University, China

Accessing students, following the professor's procedures, communicating with professors and students, solid understanding of knowledge

AWARDS

Advanced Individual, 2011

6 times for 1st and 2nd Class Scholarship (achieving top 10 in my major), 2012-2014

Merit Student, 2012

Excellent Individual in University, 2012

Minoring in The Project Cost and obtained the qualification certificate, 2012

PUBLICATION

Publication: Research Overview of Hot Rolling Strip Laminar Cooling Process Model

Industrial Science Tribune 2012.2 (ISSN: 1673-5641 CN: 13-1371/F)

Volunteer

Member of love club (helping old people and children for 4 years)