

JUNIOR SOFTWARE ENGINEER

- 6 years major in Computer Science with 1.5 years' technology field work experience
- Over 5 years of solid programming experience in Java and relational database Oracle SQL
- Over 1 years of programming experience in JavaScript, MySQL, HTML5 and CSS3
- Have great passion in Software Development and Web Development with Java/J2EE both front-end and back-end

TECHNOLOGY SNAPSHOT

- Proficient in Java, JavaScript and Oracle SQL
- Intermediate in MySQL, HTML5, CSS3 and Python
- Prior experience with jQuery and Git tools
- Java/J2EE with knowledge of Servlets, Java ServerPage (JSP) and Spring framework
- Experienced IDE of Eclipse/ Eclipse EE, Brackets, IntelliJ IDEA, WebStorm, Kali Linux and Fedora (Linux based)

EDUCATION

The George Washington University, Washington, D.C. **Aug. 2014 - May 2016**
Master of Science in Computer Science, **GPA 3.6 / 4.0**
Relevant Coursework: Algorithms, Object-Oriented Design, Software Engineering, Software Paradigm, Software Testing

Chang Gung University, Taipei, Taiwan R.O.C **Sep. 2009 - Jun. 2013**
Bachelor of Science in Computer Science, **GPA 3.54 / 4.0**
Relevant Coursework: Java & C Language Programming, Oracle SQL Database, Data Mining, Operating Systems

EMPLOYMENT

Otek International Inc., Taipei, Taiwan R.O.C **Jan. 2013 - Aug. 2014**
Junior Software Engineer

- Overhauled company website with JavaScript, jQuery, HTML5 and CSS
- Built back-end system by using Java EE(J2EE), JSP, Servlets and Oracle database. Using Git for version control
- Developed structure of products database using Oracle SQL to maintain 500+ customer's purchase records
- UI designed two mobile Apps collaboratively. Experienced with both iOS and Android Apps development
- Utilized Fabric for Apps Bugs fix and beta testing

WEBSITE PROJECT

Otek International Inc. Website, Project at Otek International Inc. **Apr. 2013 - June. 2014**
Website Link: <http://www.otek.com.tw/engotek/>
Otek International Inc. is a company provides interactive mobile apps solutions (both iOS and Android), and have developed world-class translation software included English, Chinese and Japanese.
Applied Technology: Java, JSP, Servlets, Oracle SQL, JavaScript, jQuery, HTML5 and CSS3

MOBILE APPLICATIONS PROJECTS

Japanese Vocabulary (Food Section), Project at Otek International Inc. **May. 2013 - Sep. 2013**
Download Link: <https://itunes.apple.com/tw/app/ri-yu-dan-zi-su-du-yin-shi-pian/id726984317?l=zh&mt=8>
Japanese Vocabulary is an app aimed at learning Japanese voc. with interesting graphics and allow users to bookmark the section and vocabulary which have been studied previously.
Applied Technology: JSON parsing data model, Interface and Icons design

Phonics for English Learners, Cooperative project at Otek International Inc.

Jan. 2013 - Mar. 2013

Download Link (IOS): <https://itunes.apple.com/tw/app/zi-ran-fa-yin-su-cheng-bao/id526597114?l=zh&mt=8>

Download Link (Android) : <https://play.google.com/store/apps/details?id=tw.com.otek.xyphonics&hl=us>

Phonics for English Learners is an application that provides clearly Phonics pronunciation and graphics to help English learners easily know how to make correctly pronounce.

Applied Technology: JSON Integration and UIView Design

COURSE PROJECTS EXPERIENCE

System Design of the Mars Ice House, The George Washington University

Mar. 2016 - Apr. 2016

- Performed Object-Oriented Analysis by using UML, Use Case Diagrams, Object Diagrams and Sequence Diagrams
- Constructed an add-on function of cameras within system design.
- Estimated system development life cycle effort and time requirement with COCOMO.
- Built system simulator for operation of the prototype and created situational data tables with MySQL.

GitHub: <https://github.com/Rachel12097/SystemDesignTheMarsIceHouse>

Applied Technology: Java, Java Swing (GUI), MySQL (IDE: Eclipse, MySQL)

Automated WiFi Jamming Attack, The George Washington University

Mar. 2016

- Constructed an automated Jamming Attack using Python.
- Programmed two series of Deauthentication Attack based on Aircrack-ng in Fedora and Kali Linux.
- Built an automated Jamming attack with function of scanning wireless signals, choosing target network and jam all the channels it has on wireless signal.

GitHub: <https://github.com/Rachel12097/AutomatedWiFiJammingAttack>

Applied Technology: Python, Aircrack-ng (IDE: Eclipse PyDev, Fedora, Kali Linux)

Computer System Simulator, The George Washington University

Jan. 2015 - Apr. 2015

- Computer system simulator is focus on the simulating of design structure and operation. By implementing the memory and cache module, and the design of vector operations, floating point and simple pip-lining, design the basic machine architecture and the instruction set architecture. Also, including branch prediction and speculative execution.

GitHub: <https://github.com/Rachel12097/ComputerSystemSimulator>

Applied Technology: Java, Java Swing (GUI), Design Structure (IDE: Eclipse)

Dr. Heart: A Coronary Artery Risk Tracking Website, Chang Gung University

Sep. 2011 - Nov. 2012

- Dr.Heart, a website provides coronary artery disease risk computation based on an instance-based learning algorithm. Graphed radar charts to simplify the difference from those of the CAD patients/non-CAD individuals in the training instances in terms of CAD risk factors. Website Introduction: <https://www.youtube.com/watch?v=mcUile45LTc>
- Trained datasets by using Weka V3.55. Data Mining technique. Developed website using ASP.NET and Oracle SQL.
- Team leader. Hold conferences and kept updated project process.

Applied Technology: Weka, ASP.NET, Oracle SQL (IDE: Visual Studio 2010, Oracle SQL Server)

PUBLICATION

Yi-Fan Chen, Wei-Shang Shih, Shu-ru Ku, Ching-Chia Chen, Yu-Hsiang Lin, Chun-Hsien Chen, "A Personalized Risk Tracking Website for Primary Prevention of Coronary Artery Disease" (2013) 43-52. The Journal of Taiwan Association for Medical Informatics, Sep.

SELF EDUCATION COURSES

Servlets and JSPs Tutorial: Learn Web Applications with Java

Udemy

The Java Spring Tutorial: Learn Java's Popular Web Framework

JavaScript: Understanding the Weird Parts

TECHNICAL & LANGUAGE SKILLS

Programming Languages: Java (Proficient), JavaScript (Proficient), HTML5 (Intermediate), CSS3 (Intermediate), jQuery (Prior Experience), .NET (Prior Experience), Python (Prior Experience)

Database Systems: Oracle SQL (Proficient), MySQL (Intermediate)

Operating Systems: OS X, Microsoft Windows, Fedora, Kali Linux

Foreign Languages: English (Professional), Chinese (Native)