# CAREER PROFILE

**Objective:** Software Development Engineer**,** intern or graduate fulltime

Final year Master of Science (Research) student majoring in Computer Science and Engineering who can offer:

* Expert skills in scalable software system development demonstrated through internship and successfully developed commercial and personal projects
* Highly developed problem solving skills developed through research
* Excellent communication and teamwork skills developed through volunteer services
* Strong motivation in problem solving and design ingenious algorithms and software products

# EDUCATION

## Master of Science in Computer Science and Engineering (Research) Jul 2012 – Present

**University of New South Wales (UNSW)**

* **Thesis Topic:** Security Evaluation of Message Authentication Systems

Systematically analyzed the security of Cost-Effective Tag Design (CETD) and fixed the security weaknesses with low additional costs.

* **GPA: Distinction**

## Bachelor of Engineering in Software Engineering Sep 2008 – Jun 2012

**Beihang University (BUAA), Top University in Project 985, China**

* **Award:** Beihang University Undergraduate Scholarship,Second Prize 2011

Each School of Beihang University nominates 5%-7% candidates annually based on academic achievement, commercial application of research, and leadership potential

* **GPA: Distinction**

# EMPLOYMENT

## Graduate Teaching Assistant Aug 2013 – Dec 2013

## UNSW

* Tutored for Course:COMP9032 Microprocessors and Interfacing
* Supervised 2 groups of 30 students in AVR assembly language programming. In total, 20 out of 30 got full marks on weekly labs and 5 out of 30 got full marks on the final design project

## Summer Intern Nov 2012 – Feb 2013

## The Software Systems Research Group, National ICT Australia (NICTA)

* Designed and implemented a component model based desktop environment on seL4 microkernel OS
* Designed the system structure and defined interfaces between components.
* Developed device drivers for various input and output devices, such as keyboard, video card and virtual disk.
* Implemented image processing and FAT32 file system.
* Integrated all components with a supervisory client that is the user interface.

# EXTRA-CURRICULAR ACTIVITY

## Vice-Present, Beihang University Volunteer Association Oct 2009 – Oct 2010

## Venue Administration Volunteer of 11th China National Competition of College Students' Extracurricular Academic and Scientific Achievement

* **Honors:** Annual Outstanding Volunteer of Beihang University 2009, 2010

Beihang University nominates 20 candidates each year based on volunteer service time and service feedback

# RELEVANT PROJECTS

**Security Evaluation System, UNSW 2013**

* Developed general purpose software in C to evaluate the security of Message Authentication (MA) systems
* Friendly APIs to facilitate connecting various source codes of MA systems and evaluation mechanisms

**Audio Processing Command-Line Tool, UNSW 2013**

* Extended the course project “audio reversing command-line app” in Java to a multiple services tool with friendly APIs for scalability

**Commercial Guiding System for the Blind,** VIA-Beihang Joint Lab **2011**

* Constructed a Human Sensing Sub-System for the project on 8051 MCU using infrared probe
* High identification accuracy and high recognition speed.

**A-Star Programming Contest Website,** Baidu  **2010**

* Designed and implemented UI and front-end codes

# SKILLS

* **Programming Languages:**

**Expert**: C, Java, and Python;

**Very Competent**: HTML, CSS, and Matlab;

**Understanding**: Linux/Unix Shell script, JavaScript, C++, and C#

* **Working Platforms:**

**IDE:** MS Visual Studio, Eclipse, and Xcode;

**Operating Systems:** MS Windows, Linux/UNIX, OS X, and Virtual Machine

* **Languages:**

**English:** Fluent**; Mandarin Chinese:** Native

* **Auditing Courses:** COMP9101 Design and Analysis of Algorithms, COMP9201 Operating Systems, COMP9243 Distributed Systems, COMP9171 Object-Oriented Programming, COMP9041 SoftwareConstruction

# REFEREES

Referee names and contact details available upon request.