

# QINGYANG ZHAO

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## EDUCATION

2010 – to date **National University of Ireland Maynooth**

***B.Sc. Computer Science & Software Engineering***

Results: 1<sup>st</sup> Year: 1.1 Class Honours      2<sup>nd</sup> Year: 2.1 Class Honours

3<sup>rd</sup> Year: 2.1 Class Honours      Expected 4<sup>th</sup> Year Result: 1<sup>st</sup> Class Honours

Activities & Societies: IEEE 6.0, Microsoft Imagine Cup, Badminton Society,  
Chinese Students Society Association, Kickboxing Society

2007 – 2010 **Changle NO.2 Middle School, Shandong Province, China**

Subjects: Chinese, Math, English, Geography, Politics, History, Physics,  
Chemistry, Biology

*(After graduation from the middle school in China, I successfully applied to  
study in National University of Ireland Maynooth)*

## RELEVANT SKILLS

### IT Skills/Expertise (Experienced)

Operating Systems:	Linux, Mac OS, Windows,
Computer Languages:	Java, C++, Python, Objective-C, HTML, CSS,
Frameworks:	Phonegap, Drupal, jQuery, jQuery Mobile
Web Services/Techonologies:	REST, JSON, Ajax
Databases:	MongoDB, SQLite, MySQL
Mobile Development:	iOS, Android
Wireless Local Area Networking:	WiFi, DD-WRT, Open-WRT
Version Control:	Subversion, Git
Software Engineering Process:	Agile Development
Other Computer Science Skills:	Microsoft Office (Word, Excel, Powerpoint)

### Other Skills

Languages (fluent): English and Mandarin Chinese

## **RELEVANT EMPLOYMENT**

*September 2013 – Present*

***Hamilton Institute, NUI Maynooth***

*Part Time Research Assistant*

Working on LoFi indoor localisation system to achieve following tasks:

- (i) Getting the current system in the Hamilton Institute properly commissioned i.e. tested etc.
- (ii) Exploring the use of multiple indicators to improve location accuracy e.g. RSS, data rate etc.
- (iii) Collecting measurements on location accuracy performance VS number of monitor nodes. This involves adding additional monitor nodes over and above the current ones. A technique for measuring location accuracy is also involved.

*February 2013 – Present*

***Dept. of Computer Science, NUI Maynooth***

*Head Demonstrator/ Demonstrator*

(i) Lab Demonstrated:

- CS141 - Introduction to Computer Programming
- CS142 - Introduction to Object Oriented Programming
- CS143 - Introduction to Computer System
- CS130 - Databases
- CS230 - Web Information Processing
- CS261 - Multimedia Technology
- CS265B - Software Testing
- CS335 - Software Engineering and Software Process
- CS385 - Mobile Development

(ii) Talk and Demonstration:

Giving a talk to master degree students about Drupal framework as well as communication between mobile applications and Drupal based websites.

*July 2013 – September 2013*

***Hamilton Institute, NUI Maynooth***

*Internship*

- (i) Associating with development of LoFi project and deploying the system into Hamilton Institute.
- (ii) Collecting and analysing statistics data in different deployment of the system.
- (iii) Testing accuracy and performance of the system and inform problems in regular meetings.
- (iv) Experienced and solved various problems in Wireless Access Point/Monitor Stations, client-server architecture and WiFi networking etc.

*February 2013 – July 2013*

***Dept. of Computer Science, NUI Maynooth***

*Intern Software Developer*

- (i) My job was to be in charge of developing smartphone and server applications that provide a centralized repository of key information and various services to support first year students as they adjust to University life. The system has been deployed for incoming students in academic year 2013.
- (ii) Regular meetings and demonstrations of the project among clients and supervisors.
- (iii) Assisting with development of other applications in a work placement team. Also in charge of various duties in the team such as research and documentation etc.

*June 2012 – July 2012*

***Centre for Media Studies, NUI Maynooth***

***Digital Green House Programme***

*Intern iOS Developer*

I was working as a software developer to develop an iPhone application that uses QR code associated with exhibits in museums/galleries to allow visitors to interactively explore information about them offline.

## **RELEVANT VOLUNTEER EXPERIENCE**

*March 2013*

***CoderDojo***

*Mentor*

Teaching kids under the age of 18 about programming and different technologies through developing games in Greenfoot.

*March 2013*

***Program Support Centre***

***Dept. of Computer Science, NUI Maynooth***

*Tutor and Demonstrator*

Supporting first year students to review and enhance programming as well as different technological skills.

## **RELEVANT PROJECTS/ COMPETITIONS**

*Autumn 2013*

***“LoFi” Project***

*– Present*

*Developer and Tester*

LoFi is a location aware WiFi system that let people know where they are inside the building through wireless technologies. Currently this system is installed in Hamilton Institute, NUI Maynooth.

*Demo Video:* <http://www.youtube.com/watch?v=kciiJujCBnc&feature=youtu.be>

*Summer 2013*

***“FindIt@NUIM Library” Project***

*Associate Developer, Applications Maintainer*

This project aims to develop a smartphone(Android and iOS) application with Drupal based server to navigate NUIM library users to find items inside building. I was initially associate developer in this project and my main job is maintaining project such as meeting clients for new requirements, fixing bugs, upgrading functions etc.

*Application download links:*

iOS: <https://itunes.apple.com/ie/app/findit-nuimlibrary/id690319334?mt=8>

Android: [https://play.google.com/store/apps/details?id=com.nuim.nuimlibraryapp&hl=en\\_GB](https://play.google.com/store/apps/details?id=com.nuim.nuimlibraryapp&hl=en_GB)

*Spring 2013*

***“Life@NUIM” Project***

*Mobile & Server Developer, Presenter*

This project aims to develop a smartphone(Android and iOS) application with Drupal based server that provides a centralised repository of key information and various services to support first year students as they adjust to University life.

*More project information:* <http://ctl.nuim.ie/student-learning/academic-advisory/lifenuim-app>

*Application download links:*

iOS: <https://itunes.apple.com/us/app/life-nuim/id676120368?%20ls=1&mt=8>

Android: <https://play.google.com/store/apps/details?id=com.qingyang.lifeNUIM>

*Spring 2013*

***Team “SQL”.***

*Programmer.*

2013 Programathon Programming Competition

Finished 1st place of third year group with two other Computer Science & Software Engineering students. This competition is issued by Dept. of Computer Science, NUI Maynooth and sponsored by Microsoft.

*Winter 2012*

***Team “A”.***

*PHP Programmer.*

A web application that provides personal and smart food recipes for elderly or widowed people to support their daily life. This project was developed in Team Project, 3<sup>rd</sup> Year Module.

- Autumn 2012*      ***Team “Sleepy Oranges”.***  
*Java and C++ Programmer.*  
 IEEEExtreme 6.0 – 24 hours Programming Competition  
 Held top 10 team position in Ireland and top 500 of over 1900 teams in the world. Acquired more interests, programming experience and teamwork skills to solve tough problems.
- Summer 2012*      ***“InFoMu” Project.***  
*Designer, Programmer and Presenter.*  
 An iPhone application that uses QR code associated with exhibits in museums/galleries to allow visitors to interactively explore information about them offline. This was a research project and was associated with the NUIM Program: *Digital Art Greenhouse 2012.*
- Spring 2012*      ***“VoiceTech” Team Project.***  
*Team Leader, C# Programmer and Presenter.*  
 A windows phone application that can achieve indoor localization and navigation by voice in *Microsoft Imagine Cup Irish Final.*
- Spring 2012*      ***“Yellow Balloon” Team Project.***  
*Web Programmer.*  
 This was a project for building a community website in Web Information Processing, 2<sup>nd</sup> Year Module.

## **RELEVANT MEMBERSHIP**

- Registered Apple Developer
- Registered Android Developer
- Registered Microsoft Developer
- Membership in Institute of Electrical and Electronic Engineers(IEEE)
- Student Membership in Association of Computing Machinery(ACM)

## **OTHER QUALIFICATIONS**

- Completed badminton-training course, 2012
- IELTS qualification, 2010
- Completed Chinese Chefs course, 2010
- National Certificate of Kick-boxing (Sanshou), China, 2009
- Completed basic German course during middle school, 2005

## **PART-TIME EMPLOYMENT**

2011 - Present **"MORE" Asian Restaurant & Take Away, Kilcock, Co. Kildare**  
(Weekends) Waiter

2010 to 2012 **Chinese-language learning, Maynooth, Co. Kildare**  
(Occasional) Private teacher

Winter 2010 **Lizhi Barbershop, Qingdao, Shandong Province, China**  
(2 months) Barber assistant

## **ORGANIZATION**

September 2012 – Present **Chinese Students Society,  
NUI Maynooth**  
Vice President & Sports Representative

- (i) Providing general suggestions for the duration of Chinese international students' academic year in NUI Maynooth.
- (ii) Assisting the society to build up connections with international office and language centre, which provides culture communication opportunities among Irish, Chinese and students from other countries.
- (iii) Organizing and hosting various meetings and festival celebrations such as Spring Festival, Festival of Lantern and National Day Celebration. Hosted the 2012 - 2013 Spring festival celebration and gave a talk for new coming students meeting 2013 - 2014.
- (iv) Contacting sponsors for various activities such as sports, competitions and festivals etc
- (v) In charge of organizing regular sports training and sports competitions such as football, basketball, badminton and table tennis. Successfully held the sports competitions in 2012 - 2013 amongst international students.

## **INTERESTS AND ACHIEVEMENTS**

**Interests**     *Sports:* Badminton, Football/Soccer, Kick-boxing and Hiking.  
                      *Computing:* Creating and designing software and websites  
                      *Puzzles:* Board Games  
                      *Reading:* Celebrity Biography/Autobiography & History

**Awards:**     *Spring 2011 to date:* Vice President in CSSA (Chinese Students Society Association) in NUIM, successfully organized several sports competitions and celebrated traditional festivals.

*Winter 2011:* Badminton Player, Runner-up awards in Christmas blitz 2011, NUIM Badminton Society.

## **REFEREES**

Dr. Tianji Li  
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Ottawa,  
Canada  
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# Appendix i – Academic Results

## COMPUTER SCIENCE & SOFTWARE ENGINEERING MODULES

4 <sup>th</sup> Year:	Theory Of Computation
	Computation & Complexity
	Machine Learning & Neural Networks
	Parallel & Distributed Systems
	Artificial Intelligence & Language Processing
	Computer Vision
	Robotics And Automation
	Programming Language Design & Semantics
	Computer Graphics
	Final Year Project

*The academic results for 4<sup>th</sup> year modules will be released in July, 2014*

## EXAM RESULTS

<b>2013</b>	<b>3<sup>rd</sup> Year Modules</b>	<b>Results (%)</b>
	Empirical Software Engineering	53
	Software Design	65
	Programming Languages & Compilers	61
	Computer Networks	57
	Team Project	84
	Software Verification	65
	Industrial Work Placement	77
<b>Overall Results (%)</b>		<b>66</b>
<b>Results Level</b>		<b>2.1 Class Honours</b>

<b>2012</b>	<b>2<sup>nd</sup> Year Modules</b>	<b>Results (%)</b>
	Database	64
	Software Testing	78
	Discrete Structure 1	71
	Algorithm & Data Structure 1	66
	Algorithm & Data Structure 2	51
	Web Information Processing	71
	Computer Architecture	70
	Computer Architecture 2	61
	Operating System	49
	Software Engineering & Software Process	71
	Calculus 3 (S)	45
	Linear Algebra 2 (A)	48
<b>Overall Results (%)</b>		<b>62.1</b>
<b>Results Level</b>		<b>2.1 Class Honours</b>



<b>2011</b>	<b>1<sup>st</sup> Year Modules</b>	<b>Result (%)</b>
	Introduction to Programming	72
	Introduction to Computer Science	87
	Introduction to Computer System	72
	Experimental Physics 1	65
	Experimental Physics 2	64
	Mechanics 1 & Special Relativity	64
	Mechanics 2 & Modern Physics	68
	Differential Calculus	88
	Integral Calculus	71
	Linear Algebra (S)	69
	Data Analysis 1(S)	44
	<b>Overall Results (%)</b>	<b>70.5</b>
	<b>Results Level</b>	<b>First Class Honours</b>
	Appendix ii – References	



20<sup>th</sup> May 2013

**Re: Qingyang Zhao**

To Whom It May Concern,

We have gotten to know Qingyang since he was successful in obtaining his work placement on the development of the App for First Years.

Throughout all of our communications with Qingyang either via email, face to face meetings and phone calls Qingyang has proven to have a great understanding of what was required, he is concise, passionate and enthusiastic about his work and anticipated any difficulties and presented possible solutions to us.

In all of the areas in which Qingyang has been involved, he has shown to have great organisational, leadership and interpersonal skills. He is extremely approachable and has great enthusiasm for all activities and has consistently achieved great results. He is a person of academic talent, enormous determination and energy and has acquitted himself admirably during in the course of the project to date.

Qingyang is a person of academic talent, enormous determination and energy. I expect that he will fully vindicate the decision to offer him this work placement supported by the Academic Advisory Office and the Students Union.

Yours sincerely,

*Rose Donovan*

*Ian Russell*

Rose Donovan

Ian Russell

Academic Advisory Office

Office of Student Activities

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Oileán na hÉireann, Má Nuad