Curriculum Vitae

PROFILE

Name	**Mr. Keyang Xiang**
Qualification	**Master of Science (MSc) in Software Engineering**
Address	**40, Cluain a Laoi, Cork Road, Waterford, Ireland**
Tel	**+353 (87) 6898229**
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General Technical Skills

- Agile practiser
- Web Technology : HTML(5), CSS(3) and Javascript. Web 2.0
- PHP5 / MYSQL5 / APACHE2
- JAVA EE 5 / JAVA EE 6
- iOS / Android / Windows Phone 7 Development / Web OS/ Hybird App
- .Net Framework
- Node JS / Mango DB
- Ant / Maven
- Redmine / Assembla
- Git / SVN
- Zendesk

WORK EXPERINCE

Corporation Name	Telecommunication Software and Systems Group (TSSG)
Address	Arclabs Research & Innovation Centre, Carriganore, Waterford, Ireland
Occupation	Software Engineer
Responsibilities	o Analyse and discuss requirement. o OO architecture design o Backend Development o Frontend Development o GUI development o Project Plan/Project Management o Maintenance o Documentation o System Modeling
Working Year	Mar 2011-Oct 2011 (Full time)
Project	• DAA Fly Plus *DAA Fly Plus is an airport service provider system. It allows end-users to pre-order airport services which are provided and designed by airport (customers) before arriving airport. System will be sending vouchers and alerts through emails, SMS, and other methods required by end users. End users use vouchers which could be barcode, authorisation code, and serial number to access services required at airport.*

	My responsibility is to develop voucher generator component which would generate voucher content with indicated type and data, and manage generated voucher in database.
	The system uses PHP as web-server(frontend) language since it adopts Joomla as CMS. Maven is used as deployment tool in this projec. Subversion is used as code management tool. Redmine is used as project management tool.
	• Smart Space Guide Service (SSGS)
	SSGS allows customers developing customised, cross-platform tour guide mobile application to their visitors. Customers will be able to create tour app, add/edit tour logic, and export application source code through system. SSGS consists of two parts: device-side and server-side. Device-side will parse designed tour logic and work offline in different language. Server-side will manage applications, process business requests, and host web application.
	My responsibility is to design and develop the system from scratch.
	Main tech used for SSGS:
	    o *Ant (System Deployment, Automated Testing)*
	    o *EJB3 (Business Application Implementation)*
	    o *PHP (Web Application Implementation)*
	    o *SOAP(Communication bridge)*
	    o *MySql(Database)*
	    o *Android / iOS/ Windows Phone 7/ Black Berry Native development*
	    o *PhoneGap Development*

Duties	As a software engineer, DAA project required me to cooperate with other developers all over the world and keeps good programming style to bring the project forward. My duty was to develop a manageable voucher component which was used as 2 dimension barcode generating. The barcode would be generated in the backend and displayed in frontend. In SSGS project, my duty was to develop a rough system which could work from scratch. I was the only developer who would design architecture, write tests, implement code and publish system. However, it was a good practise of JAVA EE 5/6, ant, PHP, and Enterprise Architecture.

Corporation Name	FeedHenry
Address	FeedHenry Ltd., Arclabs Research & Innovation Centre, Carriganore, Waterford, Ireland
Occupation	Senior Software Engineer
Responsibilities	Develop cross-platform mobile apps that are based on

	Web techniques using HTML5 , CSS3, Javascript.
Working Year	Sep 2010- Mar 2011 (Full time) & Mar 2011 – Oct 2011 (Part Time) & Oct 2011 – Present (Full Time)
Project	- Irish Life Calc - Independent News. - RTE Radio Pocket Player - MyMed App - NCB stock viewer - Aerlingus App - RTE Documentary One - Riverdance App
Duties	I was involved in all stages of the project life cycle, my main duties included design, development and also support once each project was live.
	I was also involved in researching new technologies to improve the underlying Feed Henry platform in areas such as evaluating new web browsers for different mobile devices, social components integration, and so on.
	I also developed core Feed Henry re-usable web components, UI library, Application Framework using Javascript which will dramatically decrease development time and maintenance time for Feed Henry developers.
	I was a mentor to some junior developers on how to engage with the current web technologies and how to make the most from them.
	One of my duties was to find bugs in Feed Henry Platform and log them to Redmine.
	I also wrote template applications that were re-used by customers. Besides, I answered questions from customers through Zendesk.

Corporation Name	Best Automatic Controlling Centre
Institute	Automation centre of Guangdong branch of The Chinese Academy of Sciences
Occupation	Software Developer
Working Year	2007-2009
Project Experience	- Video management system. (C#.NET based) *The system was using a one to many Client Server architecture. My duty was to design interfaces between the client and server and also, interfaces between modules so that other developers were able to develop required system based on these interfaces.* *I also wrote a communication module which was based on Windows Communication Fundamental (WCF) of .Net 3.5 to transport huge files.* - Fire alarm distribution system. (C#.Net, WebService) *GIS Sub-System Development Based on room design*

paradigm drawn with AutoCAD. My duty was to develop a system that would receive fire alarm signal from a building and mark the position on the AutoCAD paradigm.

EDUCATION

Year	Items	Content
2009-2011	Education Level	Level 9 (Master)
	School Name	University of Limerick
	Course Name	Software Engineering
	Final Thesis	The Clarification and Implementation of Behaviour Driven Development: an Iterative Tool Kits Study Approach
	Abstract	Test Driven Development (TDD) is one of the most popular approaches used by developers. However, TDD also confuses TDD practitioners. In order to eliminate the confusion, Dan North introduced Behaviour Driven Development (BDD) which evolves from TDD. BDD combines the concepts of TDD, ubiquitous language, and acceptance testing so that developers are more convinced with tests they have written. However, BDD is an approach not only for developers but also for customers. It provides an iterative decomposition approach to help customers and developers to analyse requirement. This thesis specified concepts and features of BDD and outputted a BDD model. Besides, there are more than 40 BDD tool kits nowadays. Different tool kits support different BDD features. It is hard for developers to pick right tool kit. What is more, not all BDD features have been supported perfectly since the concept of BDD is not clear. This thesis clarified those BDD features and concepts.
	Final Mark	Qualification: Master of Science. Honours: Second Honour, Grade I.
2005-2009	Education Level	Level 8(Bachelor)
	School Name	South China University of Technology (985 plan & 211 plan)
	Course Name	Mathematics and Applied Mathematics (Computer science related)
	Final Year Project	Community First Aid Alarm System Based On GIS.(CFAS) **Introduction:** CFAS helps patients call for help and alarm

nearest registered hospital while a sudden attack happens to the patients. User (patient) can use mobile devices or special equipment (wireless trigger) sends an emergency signal to nearest hospital through landline, internet or GSM based on conditions. The registered hospital will automatically alarm and print related information (i.e. Details of the patient, directions on the map from hospital to patient's resident, related medical history).

The reason for this system is mainly because for most dangerous disease, patients cannot move or even speak before they have not lost conscious. This system will provide simple trigger for them to send a signal requesting help.

Final Mark	78 out of 100 (equals Second Honour, Grade I) Graduated with 209 credits (170 required).