

### Personal Information

Name: LI ZIQI                      Email Address: liziqi\_@hotmail.com  
Gender: Male                      Current Location: Xiamen, Fujian, China  
Online Profile: <http://www.linkedin.com/in/liziqi/>  
Personal Website: <https://lizq-git.github.io/Resume-CV/>

### Personal Profile

Stay Hungry, Stay Foolish - Steve Job

Through the overseas study experience and the multi-nation working experience from the past 2 years, I trained myself to be a highly self-motivated, task-oriented, open-minded and someone who is willing to spend extra to learn new skill-sets to meet the demands of my job.

### Skills & Abilities

Language Proficiency	English and Chinese (Written & Spoken)
Programming Background	Java, C++, Python, and Shell
Core Competence	Software Development, Team Management, Team Communication, Self-learning

### Work Experience

01.2018 - Now	Motic China Group Co., Ltd	Software Developer
Worked as a software developer in the Development Department, and mainly handle the following tasks		
<ul style="list-style-type: none"><li>➤ Machine Learning, deep learning, convolutional neural network training course with Global Good at Seattle, Washington, USA. The following topics are covered: (13<sup>th</sup> March 2019 - Now)<ul style="list-style-type: none"><li>■ Data preparation, using annotation tool to annotated the training data, reduced existing features to avoid over-fitting.</li><li>■ Using the faster RCNN network to train on existing micro image set and a model with high score of 99% accuracy is achieved.</li><li>■ Using Mysql workbench to get familiar the database that Global good owned. (over two million of thumbnails from all over the world).</li><li>■ Learn how to handle a small set of data, such as making use of augmentation technique on the data, e.g. rotate, mirror image.</li><li>■ Learn the usage of each neural network layer.</li><li>■ Learn the usage of hyper-parameters.</li><li>■ Learn the regression technique, linear, ridge, lasso and logistic.</li><li>■ Learn the Clustering technique, Mahalanobis distance, Principal</li></ul></li></ul>		

Component Analysis (PCA), Gaussian Mixture Models (GMMs), k-means.

- Self-learning Matlab, to work on an auto-scope project with Global Good, and handle the following tasks:
  - Code Conversion, converting Matlab Code to C++ via tool - Coder and hand-coding (line by line translating from Matlab to C++).
  - Develop testing script for 200 functions.
  - Develop a script to move the Coder generated files which are .cpp and .h files. (Contents has to be update when moving.)
  - Integrate the converted code with existing software.
  - Host Scrum Meeting to communicate with the team to resolve the bugs, report the progress.
  - The source code maintenance is controlled via Git.
  
- Self-learning Deep Learning - Tensorflow on Linux
  - Using transfer learning and re-training technique to train an image classifier to classify the types of cells.
  - Using transfer learning and re-training technique to train an object detection to detect the objects via Nvidia container.
  - A classifier was built, an accuracy of 83% is achieved.
  
- Using Android Studio to maintain the Android application:
  - To develop new features.
  - To fix bugs.
  - To brief the updates to the production line, and train them as the application is a release to the microscope and the customers.
  - The source code maintenance is controlled via Git.
  
- Using Shell Scripting to patch the software on the Linux platform remotely.
  - In order to ensure the correctness of the patch, the following steps are followed. Firstly, investigating on the bugs, secondly evaluating the workload, thirdly making the patch shell scripting and do a self-test on the patches, lastly provide the patch installation documentation, and assisting the customer with the patching.

08.2017 - 12.2017

IBM Manufacturing Solutions Pte Ltd.

Intern

Worked as a software developer in the IBM Software Department – Deployment Automation Team, and mainly using Shell Scripting to handle the following tasks:

- Self-learning Jenkins then adopted a new authentication method on IBM Jenkins Server, e.g. LDAP (Lightweight Directory Access Protocol).
- Self-learning Docker, then work with the docker containers e.g. deploy the Docker containers.
- Self-learning IBM WAS (WebSphere Application Server) and patching the server.
- Self-learning IBM BPM (Business Process Manager) and patching the server.
- Self-learning IBM UCD (Urban Code Deployment) and use it as a tool for the deployment automation.
- Self-learning the software version control – GitHub.

05.2017 - 07.2017      Motic China Group Co. Ltd.      Intern  
Worked as a software developer in the Software Development Department.  
Mainly doing the following tasks:

- Migrate a Visual Studio 2008 based program to Visual Studio 2013 based program.
- Integrate with Motic protection mechanism, e.g. hardware dongle and software license.
- Integrate with Motic hardware, e.g. the Motic camera series.
- Get familiar with the migration of the Matlab solution to C++ language based.

08.2016 – 05.2017      Final Year Project with NTU – Monitor System for the Elderly  
The main objective of this project is to develop a monitoring system to keep track of the elderly's motions through multiple sensors, based on the collected data to make a decision whether the elderly needs help or not.

- Data collection, use Arduino Uno R3 board to work with different hardware sensors then send to collected data to the laptop via the radio communication module.
- Data handling, use Visual Studio to develop required programs:
  - ◆ Client, listen to the radio communication module and handover to the server.
  - ◆ Server, store to data from the client to the SQL database and link the web application to access the database.
  - ◆ Web Application, provide the interface for the caregivers to access the collected data via account and password.

08.2015 - 11.2015      Project Manager  
Gathered a team of five to provide services to a company. E.g. Android, IOS and web page development for their online ticket ordering system which is used for the bus services.

11.2014 - 06.2015      S&Z Pte Ltd.      Entrepreneur

Join a start-up software company which is launched by a friend from NTU.  
I played a part as a helper in recruitment and project planning.

### Education

07.2014 - 12.2017	Nanyang Technological University	Computer Engineering	Degree
03.2011 - 04.2014	Singapore Polytechnic	Info-Communication & Design	Diploma
08.2007 - 12.2010	Montfort Secondary School		GCE O Level

### Awards

2012	Singapore Polytechnic - Merit Award - Singapore Technologies Telemedia Prize
2012	Singapore Polytechnic - Director's Honour Roll
2013	Singapore Polytechnic - Merit Award - Hutcabb Prize
2013	Singapore Polytechnic - Director's Honour Roll
2014	Singapore Polytechnic - Merit Award - Singapore Technologies Telemedia Prize
2014	Singapore Polytechnic - Diploma With Merit
2018	Nanyang Technological University – Degree with Honours (Merit)