



Zhao Shouren

Target Position: Data Engineer

E-mail: E0015256@u.nus.edu **TEL.:** 65-82450168

Nationality: Chinese **Age:** 24 **Gender:** Male

Add.: Blk 868, Yishun Street 81, Singapore, 760868

EDUCATION

01/2016-02/2017	National University of Singapore Master of Science (Electrical & Computer Engineering)	GPA: 3.75/5.0
08/2011-06/2015	Southeast University (Nanjing, China) Bachelor of Engineering (Electronic Science & Technology)	GPA: 3.46/4.0

CORE CURRICULUMS

Pattern Recognition, Neural Network, Real-time System, Computer Network, Multimedia Computing & Application, Programming & Algorithmic Language, Computer Architecture & Logic Design, Multiprocessor System, Design of Electronic System, Image Processing.

SKILLS

Programming Language: **C, C++, Java, Matlab, Python.**

Knowledge: Data Structure & Algorithm, Operating System, TCP/IP, Database

Specialty: Machine learning, Computer vision, Real-time systems, Embedded system, Android development, NFC, RFID, Bluetooth, MFC, Computer control system.

Familiar with Windows and Linux environment.

WORK EXPERIENCE

16/01/2017-Present	ASM Pacific Technology (Singapore)	Software engineer
◆ 2D Strip Map Real-time Display		
• According to parameters of function, used MFC list box controller to user-friendly draw all chips in the lead frame		
• Chosen suitable data structure to save the info of lead frame and efficient algorithm to search the target cell		
• This MFC tool can maximally draw a 128*512 lead frame and only take a little system resource		
◆ License Management for Valuable Features		
• Designed data structures and algorithms to manage features according to license info accurately and user-friendly		
◆ Icon Management		
• Developed a thread to detect the status of each feature of system and update its icon in real time (replace trigger by operation in previous)		
◆ Fixed bugs according to manager's assignment		

INTERNSHIPS

01/06/2016-31/08/2016	Huawei International Technologies (Singapore)	Software engineer
• Developed NFC (Near Field Communication) software operating in development board in C Language		
• Developed Android application (in Java) and exchange data with development board (with NFC)		
• Added SHA-2 algorithm (with key and random number) to both development board and Android phone for authentication		

30/06/2014-29/08/2014 **Shenzhen Software Industry Association** **Software engineer**

- Learned how to test and assess software products
- Assisted the managers to audit the software enterprises and software products
- Participated in the organizational work of training lectures and software products exhibition

08/07/2013-09/08/2013 **Shenzhen Sunline Tech Co., Ltd.** **Software engineer**

- Involved in the development of Financial Information Technology software
- Got familiar with the development of commercial bank software including business class, management class and channel class

PUBLICATIONS

X. Jiang, S. **Zhao**, Z. Zhou, N. Zhao, "Intelligent & Wireless Management System Based on RFID Technique", 7th IPS International Collaboration Symposium (IPS-ICS 2013), Kitakyushu, Japan, November 2013.

HONORS & AWARDS

04/2014 Second Prize of Student Research Training Program of Jiangsu Province awarded by Southeast University

06/2013 Third Prize of 10th Vision Guided Robot Race awarded by Southeast University

06/2013 Third Prize of Mathematical Contest in Modeling awarded by Southeast University

PROJECTS

01/2016-05/2016 Advisor: Dr. Sun Ying & Feng Jiashi

◆ **Pattern recognition project: Handwritten Digital Recognition**

- Used four novel Machine learning methods to process handwritten digital images and recognized the number.
- The Methods: Principle Component Analysis, Linear Discriminative Analysis, Support Vector Machine, Convolutional Neural Networks

01/2016-03/2016 Advisor: Dr. Xiang Cheng

◆ **Neural network project: Facial Attribute Recognition**

- Used Multi-Layer perceptron solve the facial attribute recognition problems.

03/2016-05/2016 Advisor: Dr. Peter C. Y. Chen

◆ **Support Vector Machine for classification of cancerous cell**

◆ **Reinforcement Learning for world grid navigation**

12/2012-03/2014 Advisor: Zhao Ning

◆ **Intelligent & Wireless Management System Based on Radio Frequency Identification Technique**

- This system consists of four parts: the RFID base station system, the tag reader system, the wireless transmission system and the database management system. My mission focused on the tag reader system and database:
- Understood the communication protocol between chip AS3992 and radio frequency tag
- Filtered, extracted and translated the information of tag in C#
- Applied MySQL database

09/2013-12/2013 Advisor: Prof. Tang Yongming

◆ **Wireless meal ordering system based on MCU and FPGA combined platform**

05/2013

◆ **Mathematical Contest in Modeling (College Scholarship Distribution Problem)**

01/2013

◆ **Vision Guided Robot Race**

- Designed the control circuit and assembled the robot
- Wrote the code (C language) for discerning and reacting to the racing track