

# Fu Cong

## Resume

### EDUCATION

- 2016 – PRESENT **Master of Computer Science**  
COMPUTER SCIENCE  
Tongji University
- 2012 – 2016 **Bachelor of Computer Science**  
COMPUTER SCIENCE  
Tongji University

### WORK EXPERIENCE

FROM FEB 2016 TO NOV 2016  
Cisco Research Department of China(CRDC)

Intern

- 1. Web GUI for the LORA system. Develop and maintain system. Django, Cassandra, Bootstrap are adopted here.
- 2. Auto testing script. Develop new auto-testing script for new feature.
- 3. Bug fixing. Fix bugs for router/switch system.

### PROJECT EXPERIENCE

- 2017.3-PRESENT **Stock price prediction**  
*python, matlab, pandas, numpy, tensorflow*  
Combine deep learning algorithm with traditional method to predict the value of a time series(stock price here). Some achievements have been made so far.
- 2016.9-2016.12 **Using ANN to detect stent in OCT images**  
*matlab*  
OCT is a technique used to image cross picture within heart vessels. Patients usually receive this medical examination after a heart stent was implanted. Given OCT video, our aim is to detect the location of stent in each frame so further works such as auto diagnosing or reconstructing is possible.
- 2015.12-2016.6 **Computer aided 3D-reconstruction of human blood vessels**  
*C, matlab*  
Graduation project. Given a set of slice images of a object, reconstruct its 3D model. RayCasting algorithm is adopted.
- 2015.6-2015.8 **Html based database**  
*C*  
Project for compiling theory. A nonsql database which uses html to store data is designed.
- 2015.1-2015.2 **Online card game/Online chart system**  
*C, TCP, socket*  
Design sever for multiplayer card game and online chart system.
- 2014.11 **32-bit CPU based on MIPS**

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### AWARDS

- 2015 **First-class Scholarship of Tongji University**  
Tongji University
- 2015 **Second-class Scholarship of ENN Energy**  
ENN Energy Holdings Limited
- 2014 **Second-class Scholarship of Tongji University**  
Tongji University

### COMPUTER SKILLS

Fluent C, Python

Intermediate SQL, Java, C#, JavaScript

Basic Shell, HTML, PHP, Dock, Verilog

*verilog*

Design a 32-bit CPU with interruption which can run 64 mips instructions. NEXYS3 platform is used to synch & run code.

2014.10 **Handwritten number detection**

*matlab, C#*

Using KNN to recognize handwritten numbers. MINIST data is used.

2014.4-2015.3 **Public washing machine book system**

*java, Android, UI*

Design a system for booking public washing machines.

2014.10 **Game: Tic-Tac-Toe**

*C*

Using A\* search algorithm to play Tic-Tac-Toe. The worst result for AI is draw. A\* is also used to solve problem like Hanoi-Tower and 8-puzzle problem.

2014.7 **Simple file system**

*C*

Design a linux-like file system. The following command line are supported: ls, cp, mkdir, cd, read, write  
A simple command line system without command line tree is designed to manipulate file system.