2017.2 # Resume

Zihua Liu

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Personal Information

Male, born in 11 September, 1996.

Education

09/2014--Present： Peking University Department of electronic engineering and computer science
Major in Computer Science Currently in the third year of a 4-year Bachelor degree

Main courses: Practice of Programming in C&C++, Data Structure and Algorithm, Algorithm Design and Analysis, Java Programming, Computer Organization, Operating System, Web Data Mining, etc.

GPA：3.52/4

Standard Tests

Pass the CET exam
GRE: Verbal: 157 Quantitative: 170 Writing: 3.0

Experience

- **2015.01: Development of Mine Sweeping game**
  - ✓ Developed in C++
  - ✓ Implement graphic interface by using <graphics.h>
  - ✓ Include archive, timing, cheating and some other functions

- **2015.12: Development of an English word reciting software**
  - ✓ Developed in Java and SQL
  - ✓ Include new word reciting, mistakes correcting, stage test, game and some other modules
  - ✓ Embedded a 30000 words offline dictionary and also support inquiring rare words through network

- **2016.05: Automatic classification of the aviation safety report documents**
  - ✓ For a given aviation safety report document, identify the types of flight safety issues involved in the report.
  - ✓ Developed in python, using SVM to implement the classification
  - ✓ The precision is over 85 percent

- **2016.06：Chinese QA system**
  - ✓ The system automatically reply to the questions given by the user
  - ✓ Offline QA return the extracted answer from the local wiki corpus, networking QA use crawlers to get answers from the internet
  - ✓ Include sentence segmentation, keyword extraction, question classification, paragraph search, template matching and some other modules.
  - ✓ Return multiple possible answers of a given question

- **2016.10: RISC-V ISA simulator**
  - ✓ Developed in C++, complete the execution of the ELF file based on the RISC-V ISA
  - ✓ Use relative data structure to simulate the hardware, including registers, memory, program counter and so on
  - ✓ Include steps like analyzing, fetching, decoding and executing for a give ELF file
  - ✓ Implement some system calls like standard input and output

- **2016.11 to present: English-French translating system based on recurrent neutral network**
  - ✓ Translate the input English sentence to French
  - ✓ Developed in Tensorflow
  - ✓ The module include four layers, with each layer having one thousand LSTM cells

Self-Evaluation

- I have always been enthusiastic about computational technology as well as being fascinated in expanding my knowledge. I have a positive and passionate mind.
- I'm interested in software development. I have developed projects by C and C++ most of the time and I also have the experience of writing Java. I studied python by myself and have using it into the procedure of my development.
- I have good command in English, so I can adapt to the English environment of studying and working.

Honors

- 2015: Learning Excellence Award of Peking University
- 2015: The third prize of programming contest of Peking University
- 2016: The Guang Hua Scholarship of Peking University

Speciality

Basketball

- The MVP of the Peking University's 2014 basketball Rookie Game
- The third place of CUBA Beijing region
- Through basketball, I strengthen my body condition and my ability of communication and teamwork.