Curriculum Vita

PERSONAL INFORMATION

Name: *Shiyu Huang*
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EDUCATIONAL BACKGROUND

Bachelor of Computer Science and Technology
School of Information, Tsinghua University
Sophomore Major GPA: 91.4255 , 10/130
Core Courses: The design and analysis of computer algorithm, Calculus, Linear Algebra, Discrete Mathematics, Foundation of Object-Oriented Programming, Introduction to Complex Analysis, Data Structures, Probability and Statistics, Elementary Number Theory, Introduction to Artificial Intelligence, Formal Language and Automation, Assembly Language Programming, Media Computing.

STANDARD TESTS

CET-6 Passed	Otc. 2014
CET-4 Passed	Otc. 2013

WORKING EXPERIENCES

Tsinghua University, Beijing, China   Otc. 2015 - Now
Artificial Intelligence Laboratory, Assoc. Prof. Jun Zhu
- Reading papers related to large-margin learning and deep bayes.
- Attending paper reading meeting every week.

SenseTime, Beijing, China   Jun. 2015 - Now
Research Intern, Research Department
- Reading papers related to deep learning and computer vision.
- Improving the accuracy of face verification.
- Accomplishing vehicle recognition project by myself.

IMPORTANT PROJECTS

Vehicle Recognition
Sensetime, Beijing, China.

- Classifying the brand and version of cars.
- Handling the whole experiment process by myself.
- The final test accuracy over 0.98.
- Using Python, Matlab, C++ to deal original images.
- Using Caffe for training and testing data.

Face Verification

Sensetime, Beijing, China.

- Reading related papers.
- Doing more than fifty experiments and find out a better deep CNN network than before.
- This work done by myself and guided by my Mentor Sun Y.
- Final work will submit to TPAMI.

Action Recognition of Video

Student Research Training Program, Tsinghua University, Beijing, China.

- Reading related papers.
- Share ideas with team members.

Speaker Recognition Base on Deep Learning

Digital Signal Processing Class Research Project, Tsinghua University, Beijing, China.

- Team leader.
- Reading related paper.
- Extract feature of audio data.
- Using CNN to training and testing data.

OTHER PROJECTS

Poisson Image Editing

- Implemented by OpenCV.
- Image fusion using poisson equation.

Content-Aware Image Resizing

- Implemented by OpenCV.
- Resizing image by seam carving.

CPU Project for Computer Organization Principles Class

- Team leader.
- A 16-bit CPU implemented by VHDL on FPGA.
- Soppurt PS2 keyboard and VGA display.

Website for Machine Learning Experiment Manager Platform

- This is a competition hold by science and technology association of my department.
- I am one of the developers of this competition.
- Game Player was Implemented by Unity3D and C# script.

Data Base

- Team leader.
- A Simplified SQL data implemented by C++ without use any open source.

Instant Messaging App

- An Android App just like WeChat and MSN.

Website and Game Player for 19th AI Competition

- This is a competition hold by science and technology association of my department.
- I am one of the developers of this competition.
- Game Player was Implemented by Unity3D and C# script.

Encyclopedia Website

- Using Web spiders implemented by Python to get website data.
- Establish a website similar with Wiki.

Computer Game-Military Chess based on LAN

- Can send messages and pictures when playing.
- Implemented by Qt.

Electronic English Dictionary

- Searching Engling word and get its meaning in Chinese.
- Implemented by C++.

Cube *Solver*

- Design algorithm to solve the cube.
- Implemented by C++.

ACADEMIC HONORS

- *Academic Excellence Award, Tsinghua University*   Oct. 2015
- *Academic Excellence Award, Tsinghua University*   Oct. 2014

SKILLS

- Programming languages: C++, C, Python, Matlab, Java, Javascript, VHDL, Ruby, C#, HTML.
- Software & Frame: Caffe, OpenCV, Ruby on Rails, Django, Flask, Unity3D, Android, Latex, Qt5.
- Other skills: Linux, Git, Photoshop.

HOBBIES

- Ping-pong ball, Taekwondo, Rubik, .Tennis, Badminton, Nunchakus, Skating, Science fiction movies.

PS

- Some public work of mine can be found on github: github.com/huangshiyu13 .