

ChangkunOu

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“Science without borders.”

Summary

I'm a B.E. student in Computer Science at Southwest University for Nationalities, and I'm also a exchange student in Media Computer Science at Ludwig-Maximilians-Universität München major in human computer interaction. I have a deep interest in intelligent system combines human computer interaction and large-scale machine learning. I enjoy programming in Objective-C/Swift for quickly product prototyping and development. Besides, I love mathematics and learned by myself in Mathematical Analysis and Abstract Algebra when I was in middle school.

Education

LMU (Ludwig-Maximilians-Universität München)

Munich, Germany

EXCHANGE STUDENT IN MEDIA COMPUTER SCIENCE

Oct. 2015 - Exp. Feb. 2016

- Major in Human-Computer Science.

SWUN (Southwest University for Nationalities)

Chengdu, China

B.E. IN COMPUTER SCIENCE AND TECHNOLOGY

Sep. 2012 - Exp. Jun. 2016

- GPA: 3.74/4.00 (1/154)

Skills

- Programming** Objective-C, C/C++, Python, Swift, LaTeX, HTML5, Javascript, PHP
- Frameworks** OpenCV, Numpy, Scipy, Matplotlib, Theano, jQuery, Express with NodeJS
- Design** Photoshop, Premiere, After Effects, Audition
- Languages** Chinese, English

Experience

Smart Graphics Conference 2015

China

STUDENT VOLUNTEER

Aug. 2015

Human Computer Interaction I 2015 Summer Semester

China

LMU & SWUN, COURSE TUTOR

Jul. 2015

Implementation of Interaction Perception Centre Based on Cloud Computing and Machine Learning

C/C++/Python/Objective-C/Swift

SWUN, THE NATIONAL COLLEGE STUDENT-INNOVATIVE PROJECT, PROJECT LEADER

Apr. 2014 - Apr. 2015

- Responsible for project planning and system architecture, and the most development work;
- Developed a Multiplatform framework which is large scale distributed machine learning communication toolkit(HorcruxLib), a traditional machine learning algorithm framework(MLiteKit), and a neural network toolkit(SmartNet);
- The product joined the Sichuan Computer Production Match and won the Second Award.

Smart Graphics 2015 Conference Website Development

HTML/CSS/JS

SMART GRAPHICS CONFERENCE, COOPERATION PROJECTS, MAJOR CONTRIBUTOR

Nov. 2014

- Responsible for whole development, visual design and maintenance.
- Website: <http://www.smartgraphics.org/sg15/>

Research on Spetical Interaction Based on Monocular Vision

C++/MFC/OpenCV

SWUN, THE COLLEGE STUDENT-INNOVATIVE PROJECT, PROJECT LEADER

Jun. 2013 - Dec. 2013

- Responsible for planning and system architecture, algorithm design. Mainly responsible for the filter module and recognise module.
- Published a paper named Space interactions based on monocular vision and simple gestures on Journal of Southwest University for Nationalities (Natural Science Edition).

Honors & Awards

INTERNATIONAL

2014.04 **Meritorious Winner**, Mathematical Contest in Modeling(MCM) 2014 U.S.A

2013.04 **Successful Participant**, Mathematical Contest in Modeling(MCM) 2013 U.S.A

DOMESTIC

2015.06 **Excellent Project**, 2014 Annual SWUN College Student-Innovative Activity China

2015.06 **Concluding Certificate**, The National College Student-Innovative Projects China

2015.05 **2rd Award**, Sichuan Computer Production Match China

2014.09 **Major Awards**, National Scholarship China

2013.11 **Pacesetter**, SWUN Outstanding Student China

2013.11 **Major Awards**, SWUN Scholarship China

Publications

- Yaxi Chen, Changkun Ou, Zhaoyang Guo. Space interactions based on monocular vision and simple gestures[J]. Journal of Southwest University for Nationalities (Natural Science Edition), 2014, 40(16):871-876

Extracurricular Activity

Guigu Lab

China

TEAM LEADER

Sept. 2014 - Jun. 2015

- Leading the team to apply a nation level project and three provincial level project;
- Website: www.guigulab.org

Mathematical Modeling Association

China

ACADEMIC DEPARTMENT, VICE DIRECTOR

Oct. 2012 - Jun. 2014

- Responsible for introducing mathematical modeling knowledge to new members.

Computer Application and Development Association

China

TECHNIQUE DEPARTMENT, DEVELOPMENT GROUP, CORE MEMBER

Oct. 2012 - Dec. 2013

- Responsible for introlducing programming languages and skills to new members.

SWUN Organization federation

China

PROPAGANDA DEPARTMENT, EXECUTIVE MEMBER

Oct. 2012 - Jun. 2013

- Responsible for whole electronic paper design;
- Desigend the ticket for Club Night 2012;
- Manufacture the advertising video for SWUN Oranization federation's change term of office in 2012.