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 provicial 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.