Ou Changkun

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changkun.us/about

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EDUCATION

University of Munich (LMU)

Master of Science in Human-Computer Interaction

Munich, Germany since Oct. 2016

University of Munich

Exchange Student in Media Informatics

Munich, Germany Sep. 2015 – Feb. 2016

Southwest University for Nationalities (SWUN)

Bachelor of Engineering in Computer Science; GPA: 3.74/4.0 (1/154)

Chengdu, China Sep. 2012 – Jun. 2016

Jun. 2016 - Sep. 2016

WORK EXPERIENCE

Shiyanlou

Chengdu, China

Software Engineer (Intern)

- o shiyanlou-logsys: Built & maintained ELK+Redis distributed log analytics system;
- shiyanlou-desktop: Developed a cross-platform Electron Windows/macOS/Linux desktop client;
- shiyanlou-recosys: Developed a course recommendation system based on collaborative filtering through Python;
- shiyanlou-courses: Wrote 17 crash and advanced tutorials for C++ users.

SELECTED PROJECTS

UniWorX Monitor

Munich, Germany

Personal Project Mar. 2017

- $\circ\,$ Tech Stack: Python, Polymer, Node.js Express, Electron
- Description: Developed an unofficial better LMU UniWorX System with new courses notifications

Munich Renting Tool

Munich, Germany

Oct. 2016

Personal Project

• Tech Stack: JavaScript, Python, Google Map API, BeautifulSoup4

o Description: A location visualization tool for Munich Studentenwerk private savings

Designing Alternative Contact-free Control Modalities for Smart Watches

Bachelor Thesis

Chengdu, China

Apr.2016 - Jun.2016

- o Tech Stack: Swift, Node.js, Web Socket, watchOS, iOS, Leap Motion, Git
- o Description: Developed an alternative way midair gesture control to operate smart watches

Implementation of Interaction Perception Center

Chengdu, China

SWUN National Student-Innovative Project at SWUN Guigu Lab

Apr. 2014 - Apr. 2015

 \circ Responsibility: Team leader and development

Research on Spetical Interaction

Chengdu, China

 $SWUN\ Normal\ Student\mbox{-}Innovative\ Project\ at\ SWUN\ Computer\ Vision\ Lab$

Jun. 2013 - Dec. 2013

o responsibility: Team leader and development

• More Open Source Projects: github.com/changkun

SKILLS

- Languages: python; javascript; c; c++; obj-c; swift; markdown/pandoc; LATEX; Native Chinese Speaker; Professional Fluent English; Elementary German
- Systems/Tools: Mac user; General Linux DevOps; Docker; AWS/DigitalOcean/Aliyun; SQL/MongoDB; zsh/tmux/vim/vscode
- Frameworks: numpy/opencv/matplotlib/skearn/tensorflow, flask, jquery/react/vue/polymer/electron, node/express
- Knowledges:
 - **Human Side**: Human-Computer Interaction; User Study; User Experience; Product Prototyping; Human Computation; Social Psychology
 - o Machine Side: Machine Learning; Recommendation System; Big Data Mining; Computer Vision; Distributed Computing; Compiler Technique; System Architecture
 - o Mathematics: Functional Analysis; Stochastic Process; Analytic Number Theory; Formal Logic and Proof

Publications

- Changkun Ou. The Fastest Guide of C++11/14. 2016, Simplified Chinese, Source Code
- Changkun Ou, Yaxi Chen(responsible professor), Andreas Butz(co-reviwer). Designing Alternative Contact-free Control Modalities for Smart Watches. 2016, Bachelor Thesis. Simplified Chinese, English
- Changkun Ou. Mathematical Modeling Tutorial (Mandarin Chinese Video Series. 2016, YouTube Playlist
- Changkun Ou, Yaxi Chen. Combining Touch Biometrics and Motion Sensors for Hand Posture Recognition and User Authentication System. Journal of Southwest University for Nationalities (Nature Science Edition). 2016, 42(4):429-435. Simplified Chinese
- Changkun Ou, Zhaoyang Guo, Yaxi Chen. Space interactions based on monocular vision and simple gestures. Journal of Southwest University for Nationalities(Natural Science Edition). 2014, 40(16):871-876. Simplified Chinese
- Changkun Ou, Mu Huang, Mengxin Shi, Jiang Cheng. A Study in Keep-Right-Except-To-Pass Rule. 2014, MCM Meritorious Winner English

Honors & Awards

Munich, Germany Nov. 2016
Munich, Germany Nov. 2016
Chengdu, China Sep. 2016
Chengdu, China Jun. 2016
Chengdu, China Jan. 2016
Chengdu, China Nov. 2015
Chengdu, China Jun. 2015

The National College Student-Innovative Projects * Concluding Certificate	Chengdu, China Jun. 2015
Sichuan Computer Production Competition $2nd \ Award$	Chengdu, China May 2015
• First-class Scholarship • SWUN Outstanding Student	Chengdu, China Nov. 2014
China National Scholarship At SWUN	Chengdu, China Sep. 2014
Sichuan Computer Production Competition $2nd Award$	Chengdu, China Jun. 2014
Mathematical Contest in Modeling(MCM) 2014 • Meritorious Winner	Chengdu, China <i>Apr. 2014</i>
First-class Scholarship SWUN Outstanding Student	Chengdu, China Nov. 2013
Mathematical Contest in Modeling(MCM) 2013 • Successful Participant	Chengdu, China <i>Apr. 2013</i>
SELECTED PUBLIC ACTIVITIES	
 Juejin Translation Project Translator, articles translation from English to Chinese Translation: How to build complex user interfaces without going completely insane Proofreading: Everyone is a designer. Get over it. Translation: How to pretend you're a great designer 	GitHub since Apr. 2017
Personal Translation Translation from English to Chinese	since May 2016
 Leap Motion Official Development Documentation Translation: full translation Swift 3 API Design Guidelines: full translation The Swift Programming Language Chinese Translation: responsible for Release 	
Academic Tutor • Cooperation lecture "Human-Computer Interaction I" between LMU and SWUN	Chengdu, China Jul. 2015
• Student Volunteer • for Conference Smart Graphics 2015	Chengdu, China Aug. 2015
• SWUN Guigu Lab Team Leader • Tutorial for members applying projects	Chengdu, China Sep. 2014 – Jun. 2015
Mathematical Modeling Association Academic Vice Director **Academic tutorial for new members*	Chengdu, China Oct. 2012 – Jun. 2014
Computer Application and Development Association Core Member Programming tutorial for new members	Chengdu, China Oct. 2012 – Dec. 2013
SWUN Organization federation Excutive Member $Design \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Chengdu, China Oct. 2012 – Jun. 2013