Hu Wang

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Education

July 2017--- Now, Singapore Management University, Singapore
Research Engineer, LARC Lab co-founded by Carnegie Mellon University and Singapore Management University

- Research in LARC Lab (Living Analytics Research Centre) with Professor Steven Hoi.
- Research in Deep Learning area.
- In charge of FoodAI research project (http://foodai.org) and medical images processing.

September 2014 --- June 2017, South China University of Technology, Guangzhou, Guangdong, China
Masters of Software Engineering, Computer Vision & Visual Programming Emphasis

- Ranked 4th (52 students).

Fall 2016, **Pittsburg State University**, Pittsburg, Kansas, USA
Visit student,   Computer Technology Emphasis

- Built a remote-controlled car.
- Built a mp3 player using hcs12 dragon board, programmed with assembly language of hcs12 microcontroller.
- Learned project management knowledge, gained computer security experience.
- All selected classes (7 classes) are As, GPA 4.0.

September 2010 --- June 2014, Hunan Agricultural University, Changsha, Hunan, China
Bachelors of Electronic Engineering

- Ranked 2nd (72 students).

Research & Projects

May 2017 to Now
Deep Learning in Food and Medical image processing

- Research on Fine-grained classification and semi-supervised learning.
- In charge of FoodAI research project (http://foodai.org) and raised the original top1 / top5 accuracy of food classification from 70% / 90% to 78% / 94%.
- Medical image processing on chest diseases.

January 2017 to May 2017
Image Matting algorithm research

- Came up with ideas of algorithms to solve natural image matting problem efficiently.
- Published a paper in Proceedings of the 2017 IEEE International Conference on Computational Science and Engineering(ICSE'17)

December 2015 to May 2016
Project Manager & Developer of Dr. Luck EST Visual Programming Platform

- Used C++ architecture, excellent transfer between different platforms.
- Implemented the backend of the platform, over 20000 C++ codes have been written by me.
- The software was in mass production and put into market now.

November 2015
Developer of Know Video Platform

- Implemented with JS+PHP in 24 hours, a chrome add-in, fancy media previews will show up whenever users type the keywords in the search engine (multiple search engine supported).
- Came up with a marvelous business model, a considerably great UGC platform by which users can upload their video clips.

May 2015
Team Leader & Developer of female shoes shopping guide-system on mobile

- Designed the system architecture and coding, including the database, framework and web-crawler programming.
- Implemented the system and test the system based on Java.

December 2014 to January 2015
Team Leader & Developer of Students homework checking system

- Conceptualize and designed the system architecture and coding.
- Used C++ (including Qt framework), over 99% checking accuracy.

June 2014 to September 2014
Masked-Men Detection computer vision research

- Created a method to find out masked-men on real time videos.

January 2014 to March 2014
Independent Implementation of ACM Online Judge

- Automatically judged ACMers' submissions, this system can be used in competitions.
- Used C++ (Compile core) and Java (Web, Struts + Hibernate).

March 2013 to April 2013
Independent Implementation of Digital clock based on FPGA

- Programmed based on VHDL of FPGA (Field-Programmable Gate Array).

Publications

- Congbo Ma, Xiaowei Yang and Hu Wang. Randomized Online CP Decomposition (Newly accepted in January 2018).
- Hu Wang, Zhongming Yang and Congbo Ma. A Fast Image Matting Method based on Interval-line Sampling. In: Proceedings of the 2017 IEEE International Conference on Computational Science and

Engineering(ICSE'17), Guangzhou, China, July 21-22, 2017.

- Hu Wang, Jun Ren. Design of digital clock based on FPGA (In Chinese). Electronic Design and Engineering. 2014, (04):127-129.

Patents & Copyrights	

- "A Graphical Programming Multithreading Synchronization Method." 1 June 2017. Patent (201710405733.7).
- "A Visual Programming Control and Store System." 30 November 2016. Patent (201611092887.7).
- "Dual Mode Video Masked-men Detection Based on Statistical Characteristics." 20 December 2015. Patent (201510971527.3).
- "Masked-men Detection Based on Color Features." 7 July 2015. Patent (201510451280.2).
- "Intelligent Masked-Men Detection system." 26 September 2014. Software copyright (2015SR035707).
- "ACM/ICPC Online Judge." 26 March 2014. Software copyright (2015SR035709).

Internship

June 2016 to August 2016
Senior Java-Programmer internship of Ant Financial Services Group affiliate with Alibaba Corporation, Hangzhou, China
- Built web-crawler software, Java programming.
- Became familiarized with Alipay SOFA architecture.

August 2015 to May 2016
Programmer internship of Dr. Luck Corporation

Awards & Honors

South China University of Technology	Excellent Students Awards	2016
IBM Master the Mainframe Global Individual Contest	Third Prize	2015
Hack Shanghai Global Hackathon	Ranked Third	2015
Microsoft campus Hackathon Contest	Excellence Award	2015
South China University of Technology Samsung Scholarship		2015
Ali Baichuan Hachathon Programming Contest	Rank Third	2015
Tencent Internet innovation and startup contest	National top 100	2015
Star Cup English Speech Contest	Second Prize	2015
SCUT Graduate Student Debate Contest	Rank Second	2014
Hunan Agricultural University ACM Programming Contest	First Prize	2013
The Eleventh Truth Seeking Cup Programming contest	First Prize	2012
The Praise of China Cup calligraphy contest	Third Prize	2012
National Electronic professionals' skills contest	Excellence Award	2012
Hunan Agricultural University English Speech Contest	Third Prize	2012
Hunan Agricultural University ACM Programming Contest	First Prize	2012
The Praise of China Cup calligraphy contest	First Prize	2010

Activities			
	▪ Microsoft Research Asia	Campus Hackathon Conference	2015
	▪ Microsoft Corporation	Microsoft Summer Camp	2015
	▪ SCUT Microsoft Technology Club	Vice-president	2015
	▪ Guangzhou Import/Export Commodity Fair	Interpreter	2015
	▪ Oral English class	Teaching Assistant	2015
	▪ Algorithm & C++ class	Teaching Assistant	2015
	▪ Qide International Education	Interpreter	2013
	▪ Aoji International Education	Interpreter	2013
	▪ ACM Programming Innovation Lab	Team Leader	2011

References

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