

# Wei Wei

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## Education

2009.6

**High school graduate**, *Yuxin School Attached to Capital Normal University*, Beijing.

2009.9

**Undergraduate**, *Shanghai Jiao Tong University*, Shanghai.

- **Major:** Computer Science and Engineering.
- **GPA & Ranking:** Overall GPA: 89.84, Major GPA: 89.59, Ranking: 5/130.
- **Major Courses:** Algorithm (100), Computer Networking (92), Mining of Massive Dataset (95), Operating System (99), Computability Theory (93), Compiler Principles (92), Software Engineering (91), Discrete Mathematics (97), Linear Algebra (96), Probability and Statistics (97), and so on.

## Academic Experience

2011.9

**Research Assistant**, *Data Center Research Group*, Advanced Network Lab (ANL).

- Advisor: Xiaofeng Gao ([gao-xf@cs.sjtu.edu.cn](mailto:gao-xf@cs.sjtu.edu.cn)) and Guihai Chen ([gchen@cs.sjtu.edu.cn](mailto:gchen@cs.sjtu.edu.cn)).
- Supervised by Dr. Gao and Dr. Chen, I conduct research about utilizing wireless links in data center networks and find better scheduling algorithms to do VM migration to improve the overall performance.

2012.4-6

**Project Member**, *Wireless Data Center Network (WDCN)*, Data Center Research Group.

- We summarized the history of the development of WDCN and looked into the future of WDCN. We worked out a survey about optimization problems and design issues in WDCN.
  - Research achievements: a journal article [1] accepted.

2012.6-8

**Project Member**, *Pre-Alert Management System*, Data Center Research Group.

- We proposed a novel distributed manager which is in charge of VM migration scheduling and flow control using forecasted future demands.
- I am responsible for the pre-alert part and also take part in simulation part.
  - Research achievements: a conference paper [3] submitted.

2012.7-9

**Project Leader**, *Quality Assured VM Placement*, Data Center Research Group.

- We presented a novel dynamic VM placement method and take correlation among VMs into consideration.
- Utilizing modern portfolio theory to assure resources are allocated without SLA violations.
  - Research achievements: a conference paper [2] submitted.

## Publications

- [1] Wei Wei, Xuanzhong Wei, Xiaofeng Gao, and Guihai Chen. "Wireless communication technology in data center networks," *ZTE Communications*, vol. 18, pp. 1–6, August 2012.
- [2] Wei Wei, Xuanzhong Wei, Tao Chen, Xiaofeng Gao, and Guihai Chen. "Dynamic Correlative VM Placement for Quality-Assured Cloud Service," submitted to *the IEEE International Conference On Communications (IEEE ICC 2013)*, September 30, 2012. (under review)
- [3] Xiaofeng Gao, Xuanzhong Wei, Wei Wei, Tao Chen, and Guihai Chen. "Sheriff: A Regional Pre-Alert Management Scheme in Wireless Data Center Networks", submitted to *the 32nd IEEE International Conference on Computer Communications (INFOCOM 2013)*. (under review)

## Awards and Honors

2009.6

**Merit student**, *Three Good Student of Beijing*.

2010.10

**Scholarship**, *Jidian Electronics Scholarship*.

2010.10

**Scholarship**, *Academic Excellence Scholarship (2<sup>nd</sup> class) of SJTU*.

2011.9

2011.9

2011.11

**Scholarship**, Academic Excellence Scholarship (2<sup>nd</sup> class) of SJTU.

**Modeling**, Third Prize of China Undergraduate Mathematical Contest in Modeling..

**Merit student**, Three Good Student of Shanghai Jiao Tong University..

## Membership

2012.6

**Student Member**, Association for Computing Machinery (ACM) Student Member.

2012.6

**Student Member**, China Computer Association (CCF) Student Member.

## Standardized Test

TOEFL Reading: 29, Listening: 30, Speaking: 23, Writing: 29. Total: 111.

GRE Verbal Reasoning: 154, Quantitative Reasoning: 170, Analytical Writing: 4.

## Experiments

2011.4

**Computer Organization Lab**, Score: 94.

- Implement a CPU on Xilinx FPGA experimental board using Verilog with 5-stage pipeline and support MIPS instructions.

2011.11

**Science and Technology Innovation, Part 2-B**, Score: 96.

- Program a toy car that can automatically run along the track using C/C++.
- Use a camera to capture surroundings and then generate the route of the car using OpenCV.

2011.11

**Course Project of Operating System, Design and implementation**, Score: 97.

- Learn about file system and design a distributed file system using advanced Linux programming.
- Master socket programming to set up connections between clients and server to transfer commands.

2012.4

**Science and Technology Innovation, Part 4-J**, Score: 95.

- Learn about the principals of neural network and implement one on our own using C/C++ and Mablab.
- Train a SVM classifier to help us automatically classify Japanese patents using LibSVM.

## Computer Skills

Programming C/C++, Matlab, Python, Ruby, Perl, Java, JavaScript, PHP, MySQL, Awk, Octave, Bash.

Document  $\LaTeX$ , Word, Excel, Vim, TeXworks, Gnuplot, Visio.

## Activities

### Professional Activities

2012.6

**External Reviewer**, for IEEE Transactions on Parallel and Distributed Systems.

2012.9

**External Reviewer**, for IEEE International Conference on Computer Communications.

2012.9

**External Reviewer**, for International Symposium on High-Performance Computer Architecture.

### Social Activities

2010.10

**Volunteer**, Volunteer in Shanghai 2010 EXPO for traffic and service information consulting.

2011.6-2012.5

**President**, of Shanghai Jiao Tong University Football Association.

- SJTUFA has more than 50 members with a yearly budget of 10,000 RMB.
- This year, SJTUFA got patronage from a local company and use the money to promote Xiwang Cup.

2010.9

**Left back**, Team of School of Electronic Information and Electrical Engineering.

- Won the second place in the 22<sup>nd</sup> Xiwang Cup in May, 2011.
- Won the first place in the 23<sup>rd</sup> Xiwang Cup in May, 2012.