Wei Wei

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Education

2009

Undergraduate, *Shanghai Jiao Tong University*, Shanghai.
Major: Computer Science and Engineering

2009

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) and so on.

Academic Experience

2012.4-6

Wireless Data Center Network (WDCN), *Survey.*
We summarize the history and the future of the development of WDCN and work out a survey [1] about the optimization probelm and design issues of WDCN.

2012.6-8

Pre-Alert Management System, *Conference.*
We propose a distributed manager which is in charge of VM migration and flow control using forecasted future demands.[2] and I am responsible for the pre-alert part.
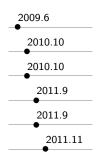
2012.8-10

Quality Assured VM Placement, *Conference.*
We present a novel dynamic VM placement method in [3] and take correlation among VMs into consideration to better allocate scarce resources. Utilizing modern portfolio theory in VM placement to assure resources are allocated without SLA violations.

Publications

[1] Wei Wei, Xuanzhong Wei, Xiaofeng Gao, and Guihai Chen. Wireless communication technology in data center networks. *ZTE Communications*, 2012.

[2] Xiaofeng Gao, Xuanzhong Wei, Wei Wei, Tao Chen, and Guihai Chen. Sheriff: A regional pre-alert management scheme in wireless data center networks. In *submission to INFOCOM*. IEEE, 2013.

[3] Wei Wei, Xiaofeng Gao, Xuanzhong Wei, Tao Chen, and Guihai Chen. Dynamic correlative vm placement for quality-assured cloud service. In *submission to ICC*. IEEE, 2013.

Awards and Honors

2009.6

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

2010.10

Scholarship, *Jidian Electronics Scholarship.*

2010.10

Scholarship, *Academic Excellence Scholarship (2nd class) of SJTU.*

2011.9

Scholarship, *Academic Excellence Scholarship (2nd class) of SJTU.*

2011.9

Modeling, *Third Prize of Mathematical Contest in Modeling in Shanghai.*

2011.11

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

Membership

2011.9 **Research Assistant**, *Advanced Network Lab (ANL)*.
ANL is directed by Prof. Guihai Chen and its research interest is computer networking.

2012.3 **Research Assistant**, *Data Center Networking Group of ANL*.
DCN group is directed by Xiaofeng Gao and Guihai Chen and focus on issues regarding DCN.

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

2010.10 **PRP**, *Image Processing*.
Implement a system in Matlab that can detect spatial temporal interest point. My program can take a short video as input and analyze the interest points in both space and time.

2011.11 **Science and Technology Innovation**, *Part 2-B*, Score: 96.
Program a little car that can automatically run on tracks. A camera is used for taking the environment as input and I am responsible for generating the route of the car using OpenCV.

2011.11 **Science and Technology Innovation**, *Part 3-D*, Score: 94.3.
Lectures are about cloud computing and virtualization. Course project is about judging whether the application is running under a virtual machine or not. C and assembly is used to finish the project.

2011.11 **Course Project of Operating System**, *Design and implementation*, Score: 97.
I learned advanced linux programming to design and implement a file system based on file allocation table that people can access it through Internet.

2012.4 **Science and Technology Innovation**, *Patrt 4-J*, Score: 95.
Lectures are mainly about neural network and support vector machine. Our project is to automatically classify patents in Japanese. We use LibSVM and Matlab to finish our project.

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