Ming Chen

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Educations
- Stony Brook University, Department of Computer Science, PhD Student   Aug. 2011 – present
- Beihang University (BUAA), Department of Computer Science and Engineering
  - Master of Engineering in Computer Application   Sep. 2007 – Jan. 2010
  - Bachelor of Engineering in Computer Science and Technology   Sep. 2003 – Jul. 2007

Courses
- CSE 506, Operating System
- CSE 548, Analysis of Algorithm
- CSE 549, Computational Biology

Teaching Assistant
- CSE 130, Introduction to Programming in C
- CSE 214, Computer Science II (Java Programming)

Honors & Awards
- Sogou Best Rookie (10%)   2011
- BUAA Outstanding Graduate Thesis (3%)   2010
- BUAA Excellent Graduate Student (5%)   2009
- Qian Changzhao & Shen Xingyuan Scholarship (1%)   2007
- Tri-Excellent Student Honor (5%)   2007
- Feng Ru Cup Contest 2nd Prize (10%)   2006
- BUAA Excellent Student (5%)   2005
- Excellent Study Scholarship (10%, 5%, 10%)   2004, 2005, 2006
- BUAA Student Leader (5%)   2003

Professional Experiences
- Research Engineer, Sogou, Beijing, China   Jan. 2010 – Jul. 2011
  - Research and engineer in NLP as one of the core 4 members in IME-Research Group
  - Train language models for our industry-leading IME product by mining web scale corpus
  - Develop MapReduce algorithms to improve the performance of Sogou Cloud Pinyin

- Research Intern, Microsoft Research Asia, Beijing, China   Jul. 2009 – Oct. 2009
  - Did research about CAPTCHA in Multimedia Security Team, Multimedia Computing Group
  - Improved readability using image processing and computer graphics techniques
  - Evaluated security by analyzing their resistance to image processing and OCR attacks

- Engineering Intern, IBM Global Business Service, Beijing, China   Oct. 2006 – Feb. 2007
  - Assisted sophisticated IBM engineers in establishing a software engineering training program
  - Developed and documented a large Java EE project as a practical model for the program

- Research Assistant, Sino-German Joint Software Institute, Beijing, China   Jan. 2005 - Jul. 2006
  - Did research in Active Service and Wireless Sensor Network
  - Established and finished a research project named "Prototype of Active Service Based on Wireless Network Environment" in "Scientific Research Training Program" of BUAA
  - Implemented a demo in the scenario of active product recommendation in supermarket

Publications

- **Ming Chen**, Zhenyong Chen, Xiao Zeng, and Zhang Xiong, "Model Order Selection in Reversible Image Watermarking," IEEE Journal of Selected Topics in Signal Processing, vol. 4, no. 3, pp. 592-604, June 2010.
- Lixin Luo, Zhenyong Chen, **Ming Chen**, Xiao Zeng, and Zhang Xiong, "Reversible Image Watermarking Using Interpolation Technique," IEEE Transactions on Information Forensics and Security, vol. 5, no. 1, pp. 187-193, March 2010.
- **Ming Chen**, Zhenyong Chen, Xiao Zeng, and Zhang Xiong, "Reversible Data Hiding Using Additive Prediction-Error Expansion," ACM Workshop on Multimedia and Security, Princeton, NJ, 2009, pp. 16-21.
- **Ming Chen**, Zhenyong Chen, Xiao Zeng, and Zhang Xiong, "Reversible Image Watermarking with Full Context Prediction," IEEE International Conference on Image Processing, Cairo, Egypt, 2009, pp. 4253-4256.
- Lei Gong, Yuebin Bai, **Ming Chen**, Depei Qian, "Link Availability Prediction in Ad Hoc Networks," IEEE International Conference on Parallel and Distributed Systems, Australia, 2008, pp. 423–427.
- Mo Sha, **Ming Chen**, Yuebin Bai, Boliang Chen, and Xiaocong Wang, "A Prototype for Active Service System," Japan-China Joint Workshop on Frontier of Computer Science and Technology, Wuhan, China, 2007, pp.35–40.

Engineering Projects

- Video Surveillance System, Sinopec Daqing   Sep. 2008 – Jan. 2009
  - Developed the center controller, which is a server and a monitor of clients (cameras)
  - Developed the common interfaces for cameras from different manufacturers

- Online Apparel Customization System, 28Shows Ltd.   Jul. 2007 – Aug. 2008
  - Led a team for the development of the core unit, which is an online t-shirt designer
  - Developed two generations of the frontends (Ajax and Flex) and the backends (Java 2D)

- Electronic Voting System, Hong Kong Congress   Mar. 2007 – Jul. 2007
  - Developed the Pre/post Module, which is a database editor (Windows application)

- Web Systems, Beijing Public Security Bureau, Haidian District   Jul. 2006 – Jul. 2007
  - Led a 3-member-team in developing a news portal and a financial report & chart system
  - SQL Server, Hibernate, JSP, Struts, JFreechart, Displaytag

Academic Activities

- Review papers for Journal of Systems and Software, IEEE Transaction on Information Forensics & Security and Information Hiding
- Organize Microsoft Research Asia academic talk "Dialogue with Tony Hoare"

Technical Skills

- Programming: C, C++, Java, Python, Matlab, SQL, JavaScript, Bash Shell, ActionScript
- Development: GNU tools (GCC, GDB, Autotools…), OpenCV, Java 2D, GDI+, Software frameworks, Web development tools, DBMSs

Personal Interests

- I love programming and take it as my special hobby. Much of my leisure time is spent on solving ACM/ICPC problems at POJ. I am proud to show off my first programming textbook signed by the author Brian W. Kernighan.
- I love basketball. I was point guard of a small team, and we won a championship once.