Huajian Mao 毛华坚

SENIOR SOFTWARE ARCHITECT · SENIOR SOFTWARE ENGINEER

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"Great oaks from little acorns grow."



Education_

National University of Defense Technology

COMPUTER SCIENCE AND TECHNOLOGY. (ADVISOR: LIONEL M. NI & NONG XIAO)

Mar. 2010 - Sep. 2013

· Research on Key Technologies of Mobile Storage and Spatial Temproal Data Analysis in Cloud Environment.

National University of Defense Technology

M.Phil

Ph.D.

COMPUTER SCIENCE AND TECHNOLOGY. (ADVISOR: YUTONG LU & WEISONG SHI)

Sep. 2007 - Dec. 2009

• Research and Implementation on YaFS File System for Heterogeneous Storage Services.

Zhejiang University

B.F.

COMPUTER SCIENCE AND TECHNOLOGY

Sep. 2003 - Jun. 2007

Graduate with Honors, Top 5%

Work & Experience

Academy of Military Medical Sciences

Beijing, China

ASSISTANT PROFESSOR

Aug. 2013 - Present

- Three years of research and development experience in biomedical informatics and related software systems.
- · Lead a R&D team together with a company to design and implement an electronic health record system for military.

Hongkong University of Science and Technology

Clear Water Bay, Hongkong

VISITING SCHOLAR

Oct. 2010 - Sep. 2013

- Research on a system for the Analysis of Vast Amount of Trajectories and Roads (AVATAR).
- Design and implement a Hadoop based distributed map matching framework for spatial-temporal data.

Selected Projects

CloudPHR
SYSTEM DESIGNER & CORE DEVELOPER

Java, RESTEasy, React, MongoDB

Jan. 2015 - Present

- A cloud service for fast generating and deploying personal health record systems.
- Shorten the PHR system core development time from months to days. [WIP]

Medical Data Processing Platform

Spark, Java, MongoDB, ETL, HIT

System Core Designer

Avatar

Jul. 2014 - Present

Hadoop, Java, Php, Map Matchina

- · A platform for medical data collecting, processing and serving.
- Have integrated national-wide medical record data from multiple health business systems for about 100,000 users.

CORE DEVELOPER

Oct. 2010 - Jul. 2013

- A system for the analysis of vast amount of trajectories and roads.
- Implement a Hadoop based distributed map matching framework for taxi GPS data.

Wukong Python, FUSE, Linux

SOLE DEVELOPER

• A cloud-oriented file service for mobile Internet devices.

Oct. 2009 - Nov. 2010

Have integrated multiple RESTful API based cloud storages and provided a POSIX file system interface.

Special FriendsAndroid, Java, Sina App Engine

SOLE DEVELOPER

May 2011 - Aug. 2011

• An Android App of Weibo message receiver without using any data traffic.

• Outdated, but an interesting idea is used to make the App keep receiving messages from friends on Weibo even without any wifi or celluar data connection. It was useful for those who has not much or even no data traffic but still wants to receive Weibo messages.

December 27, 2016 Huajian Mao · Résumé

Honors & Awards

2007	Graduate with Honors (Top %5), Zhejiang University	Zhejiang, China
2006	First-Class Scholarship and Excellent All-round Student, Zhejiang University	Zhejiang, China
2005	The Specialized Scholarship of Social Practice, Zhejiang University	Zhejiang, China
2005	Second-Class Scholarship and Excellent All-round Student, Zhejiang University	Zhejiang, China
2004	First-Class Scholarship and Excellent All-round Student, Zhejiang University	Zhejiang, China

Professional Activities

TCIST	Committee Member, Information Storage Technology, CCF, China	2014 - Present
TKDE	Reviewer, IEEE Transactions on Knowledge and Data Engineering	2016
JCST	Reviewer, Journal of Computer Science and Technology.	2012 - 2014

Skills

Programming JAVA, C, Python, Php, Shell, Scala, LaTeX, Git

Platform Apach Spark, Hadoop, Android

Web HTML5, Bootstrap, React, Redux, Webpack, Grails

OS Linux (mainly), Mac OS, Windows
Languages Chinese (Native), English (Fluent)

Publications

Somersault cloud: Toward a cloud-of-clouds service for personal backup

Huajian Mao, Nong Xiao, Yutong Lu, Haifeng Xu

International Conference on Computing, Networking and Communications (ICNC), 2013

Efficient Similarity Joins on Massive High-Dimensional Datasets Using MapReduce

Wuman Luo, Haoyu Tan, Huajian Mao, Lionel Ni

13th International Conference on Mobile Data Management, 2012

Exploration of ground truth from raw GPS data

Huajian Mao, Wuman Luo, Haoyu Tan, Lionel M Ni, Nong Xiao

 $Proceedings\ of\ the\ ACM\ SIGKDD\ International\ Workshop\ on\ Urban\ Computing, 2012$

Cmpres: To Save Your Cloud World Compressed

Huajian Mao, Nong Xiao, Yutong Lu

Fourth International Conference on Computational and Information Sciences (ICCIS), 2012

RAIC: Redundant Array of Inexpensive Cloud

Huajian Mao, Nong Xiao, Yutong Lu

International Conference on Hybrid Information Technology, 2012

Wukong: A cloud-oriented file service for mobile Internet devices

Huajian Mao, Nong Xiao, Weisong Sh, Yutong Lu

Journal of Parallel and Distributed Computing 72.2 (2012) pp. 171–184. Elsevier, 2012

EaSync: A Transparent File Synchronization Service across Multiple Machines

Huajian Mao, Hang Zhang, Xianqiang Bao, Nong Xiao, Weisong Shi, Yutong Lu *IFIP International Conference on Network and Parallel Computing*, 2012

On packing very large R-trees

Haoyu Tan, Wuman Luo, Huajian Mao, Lionel M Ni

IEEE 13th International Conference on Mobile Data Management, 2012

MR-DBSCAN: An Efficient Parallel Density-based Clustering Algorithm Using MapReduce

Yaobin He, Haoyu Tan, Wuman Luo, Huajian Mao, Di Ma, Jianping Fan

IEEE International Conference on Parallel and Distributed Systems, 2011

A Distributed filesystem framework for transparent accessing heterogeneous storage services

Yutong Lu, Huajian Mao, Jie Shen

IEEE International Symposium on Parallel & Distributed Processing. 2009