

毛华坚

系统架构师 · 软件工程师

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“万丈高楼平地起”

教育情况

国防科学技术大学

计算机科学与技术 (导师: 倪明选 [LIONEL M. NI] & 肖依)

- 云环境中的移动文件存储和时空数据分析关键技术研究

博士

2010.03 - 2013.06

国防科学技术大学

计算机科学与技术 (导师: 卢宇彤 & 施巍松)

- 支持异构网络存储服务的 YaFS 文件系统研究与实现

硕士

2007.09 - 2009.12

浙江大学

计算机科学与技术

- 优秀毕业生, 前 5%

本科

2003.09 - 2007.06

工作经历

军事医学科学院

助理研究员

- 医学信息学方向 3 年的研究与系统研发经验
- Lead a R&D team together with a company to design and implement an electronic health record system for military.

北京

2013.08 - 至今

香港科技大学

访问学者, 联合培养

- 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.

香港

2010.10 - 2013.09

项目经验

CloudPHR

系统架构师 & 核心开发人员

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

Java, REStEasy, React, MongoDB

2015.01 -

健康数据库关键技术与示范应用研究

系统核心设计师

- 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.**

Spark, Java, MongoDB, ETL, H1T

2014.07 - 至今

Avatar

核心开发人员

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

Hadoop, Java, Php, Map Matching

2010.10 - 2013.07

Wukong

独立开发者

- A cloud-oriented file service for mobile Internet devices.
- Have integrated multiple RESTful API based cloud storages and provided a POSIX file system interface.**

Python, FUSE, Linux

2009.10 - 2010.10

Special Friends

独立开发者

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- Outdated, but an interesting idea is used to make the App keep receiving messages from friends on Weibo even without any wifi or cellular data connection.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

Android, Java, Sina App Engine

2011.05 - 2011.08

获奖与荣誉

2007	优秀毕业生 (前%5), 浙江大学	浙江
2006	优秀学生奖学金一等奖, 浙江大学	浙江
2005	浙江大学暑期社会实践优秀团队, 浙江大学	浙江
2005	优秀学生奖学金二等奖, 浙江大学	浙江
2004	优秀学生奖学金一等奖, 浙江大学	浙江

任职情况

TCIST	委员, CCF 存储专业委员会, 中国计算机学会	2014 - 至今
TKDE	审稿人, IEEE Transactions on Knowledge and Data Engineering	2016
JCST	审稿人, 计算机科学技术学报 (英文版) Journal of Computer Science and Technology	2012 - 2014

专业技能

编程语言	JAVA, C, Python, Php, Shell, Scala, LaTeX, Git
框架平台	Apach Spark, Hadoop, Android
Web 开发	HTML5, Bootstrap, React, Redux, Webpack, Grails
操作系统	Linux (mainly), Mac OS, Windows
语言	中文 (母语), 英语 (流畅)

论文发表情况

存储系统

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

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

数据处理

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

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