

Haitang Hu

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Education

- 2014–present **Master of Computer Science**, *The Johns Hopkins University*, Baltimore.
Courses: Machine Learning, Machine Learning in Complex Domains, Machine Translation, Information Extraction, Distributed System, Big Data, Graph Theory
GPA:3.6
- 2007–2011 **Bachelor of Engineering**, *TONGJI University*, Shanghai.
Courses: Discrete Mathematics, Higher Mathematics, Object-Oriented Programming Languages (C/C++), Algorithm Analysis, Data Structures, Database Principles, Operation Systems, Computer Networks, Computer Graphics

Research

- 2014–present **Disk Performance Evaluation Tool**, *IDIES Lab with John Pliam*.
Evaluating performance fluctuation on different configuration of ZFS, including ssd cache, soft raid mode, etc.
- 2012–2012 **SOA Best Implementation**, *NS Solutions (Shanghai) Co., Ltd*.
Compared different approaches of Service-oriented Architecture, combined with situation of company and selected the best implementation (Web Service) in order to refactor existing projects and create a reusable module.

Experience

Full Time

- 2011–2014 **System Engineer**, *NS Solutions(Shanghai) Co., Ltd.*, Shanghai.
- Designed and implemented features to enhance product functionality, tested bugs and created defect fixes to ensure product quality for more than 5 customers.
 - Researched and improved scalability, security, usability and performance of products.
 - Analyzed customers' requests, fully understood and dug into their real needs through listening and logical thinking, proposed technical solutions effectively and efficiently.

Internship

- 2011–2011 **Business Analyst**, *Hewlett-Packard (Shanghai) Co., Ltd*, Shanghai.
- Created reporting tools to raise productivity about 10% for a 5-members reporting group.
 - Prepared and generated daily/weekly/monthly reports with SAP&BW systems, which used by more than 30 employees, helped to analyze and deal with exception data.
 - Cooperated with HP employees all over the world (US, India, Thai), consolidated and migrated more than 350 kinds of reports to China reporting center.
- 2010–2010 **Software Engineer**, *AltiGen Communications Inc.*, Shanghai.
- Coordinated with QA testers for unit testing, bug shooting, ensured product experiences of 15,000 users all around the world.
 - Collaborated with product and engineering team members to design and develop integrated add-on for more than 10,000 Outlook & Altigen client users.

Selected Project Experience

Software Engineering

- 2014–2014 **A Distributed Chat Room**, *The Johns Hopkins University*.
Designed and implemented a distributed chat room including message synchronization, group talk and crash recovery.
- 2011–2011 **Shimadzu Expense Managing System**, *NS Solutions(Shanghai) Co., Ltd.*
Designed, implemented and maintained a website which is used to manage expense information from more than 14 branch offices all over China.

Machine Learning

- 2015 **Fenonic Acoustic Models**, *The Johns Hopkins University*.
Constructed a Fenonic Acoustic Model to recognize pronounced words.
- 2015 **Statistical Machine Translation**, *The Johns Hopkins University*.
Implemented word aligner, porter stemmer, decoder, etc.
- 2014 **Image Classification with PCA on Spark**, *The Johns Hopkins University*.
Applied parallelized PCA, Gaussian Kernel SVM on CIFAR 10 image data set.
- 2014 **Semi-supervised Chinese Keyword Classification**, *The Johns Hopkins University & E-surfing Video*.
Applied Naive Bayes on supervised Chinese keyword segments and predicted its category with 70% accuracy.

Extracurricular Activities

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|-----------|--------------------------------------|--------------------------|
| 2008 | 2010 Expo Service Windows Supervisor | <i>Tongji University</i> |
| 2007–2008 | Volunteer Activities Organizer | <i>Tongji University</i> |
| 2007 | ROEWE 550 commissioning Assistant | <i>SAIC Motor</i> |

Skills

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|-------------|---|
| Theory | Machine Learning, Distributed System, Big data, OOP |
| OS | Linux, Windows, iOS |
| Programming | Java, C++, C#, Objective-C, Python, PL/SQL, Bash/Zsh |
| Network | TCP/IP, Service-oriented Architecture (Web Service), REST, JSON |
| DB | Oracle database (OCP), MySQL, SQL Server 2005+ |

Languages

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| English | Professional Proficiency |
| Japanese | Professional Proficiency |
| Chinese | Native |