

# HAITANG HU

E-mail: [hthu@cs.jhu.edu](mailto:hthu@cs.jhu.edu) Website: <http://nero-hu.github.io>

## ADVANTAGES

---

- Advanced research and analytical skills enhanced by 2 years industrial experiences
- Strong academic background with excellent performance on computer science major courses along with extensive hands-on training
- Ability to use knowledge and skills to devise solutions to unfamiliar problems

## EDUCATION

---

### The Johns Hopkins University

*M.S.E in Computer Science*

**Overall GPA:**

**Relevant Coursework:** Machine Learning, Big Data, Distributed Systems

**Baltimore, MD**

*Aug 2014 – Dec 2015(Expected)*

### Tongji University

*B.E in Computer Science and Technology*

**Overall GPA:** 77/100 **Major GPA:** 85/100

**Relevant Coursework:** Discrete Mathematics, Higher Mathematics, Object-Oriented Programming Languages (C/C++), Algorithm Analysis, Data Structures, Database Principles, Operation Systems, Computer Networks, Computer Graphics

**Shanghai, China**

*Sept 2007 – July 2011*

## EXPERIENCE

---

### NS Solutions (Shanghai) Co., Ltd

A leading system integrator and solution provider in Japanese manufacturing industry

**System Engineer**

**Shanghai, China**

*Jul 2011 – present*

- 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

### Hewlett-Packard (Shanghai) Co., Ltd

**Intern, Business Analyst**

**Shanghai, China**

*Feb 2011 – May 2011*

- 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

### AltiGen Communications Inc.

The leading provider of 100% Microsoft-based Unified Communications solutions

**Intern, Software Engineer**

**Shanghai, China**

*Jul 2010 – Dec 2010*

- 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

## SIGNIFICANT PROJECTS

---

### iOS SNS Application

**Team Leader (with a group of 5 people)**

**NS Solutions (Shanghai) Co., Ltd**

*Dec 2012 – Mar 2013*

**Modeled, designed, implemented iOS application aiming at connecting thousands of parents of babies over Shanghai**

- Investigated, selected, designed and constructed basic technical framework, implemented full server end using Ruby-on-Rails including MVC Model and Active Record Query Interface, partly implemented frontend functioned on connecting other SNS accounts through OAuth protocol, and message processing mechanism
- Defined logic data model and physical data model, designed basic structure of database schema, determined to use JSON data protocol as default data interaction, regarded scalability/security/performance/exception handling

- Communicated with customers, discussed design rationality and figured out the best design together with customers and developing teams

### **Research Service-oriented Architecture best implementation**

**NS Solutions (Shanghai) Co., Ltd**

*Team Leader (with a group of 4 people)*

*Sept 2012 – Nov 2012*

***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***

- Obtained in-depth understanding through research on Web Service basic protocols such as Simple Object Access Protocol (SOAP), Universal Description Discovery and Integration (UDDI), Service Endpoint Interface (SEI)
- Investigated business model in purchase, defined standard purchase interface, implemented service interface using Spring Web Service framework along with annotation-driven programming
- Arranged and controlled the research schedule, assigned workload and coordinated with team members, brainstormed with team members and made best decision

### **Shiseido Global ETL**

**NS Solutions (Shanghai) Co., Ltd**

*System Engineer*

*Dec 2011 – Apr 2012*

***Implemented ETL stage of BI importing processes for relieving Shiseido employees workloads and visualizing data***

- Regarded architecture of data warehouse and data mart on fault tolerance, high performance for large data and exception dealing and alerting, considered diversity of data source, designed full compatible mechanism to deal with different kind of data
- Developed through all ETL stages from extracting, transforming to loading, used middleware and to connect source data and target data while using PL/SQL to manipulate data to required forms
- Coordinated with Shiseido staff all over the world (Korea, Brazil, Singapore, etc.) through English and Japanese; managed to complete developing documents by joint efforts and responded to customers' requirements

### **Shimadzu Expense Managing System**

**NS Solutions (Shanghai) Co., Ltd**

*System Engineer*

*Sept 2011 – Dec 2011*

***Established a website which used to manage expense information from more than 14 branch offices all over China***

- Wrote design, develop and test documents, implemented about 2/5 of the system using Spring framework as base, Velocity and JavaScript for presentation layer, iBatis and MySQL as persistence layer
- Fixed bugs and enhanced system functionality to fit new demands

### **RSS Based Web Search Engine**

**Tongji University**

*Developer*

*Feb 2011 – May 2011*

***Developed a RSS based search engine serving for more efficient and fast news finding and reading***

- Investigated deeply into RSS protocol standards, semantic analysis (MMSEG4J algorithm), search engine principles and full-text indexing
- Implemented backend using Servlet, DAO, JDBC and dependency injection (DI) technology, frontend using JSP, JavaScript, CSS, WEBKIT API and AJAX, LUCENE as indexing engine, MMSEG4J as semantic analysis basis, integrated all technics into an efficient/fast/lightweight web search engine
- Designed and structured database using MySQL, combined index information

## **EXTRACURRICULAR ACTIVITIES**

<b>2010 Expo Service Windows Supervisor</b>	Organization Department, Tongji University	<i>Dec2008 – May 2008</i>
<b>Volunteer Activities Organizer</b>	Volunteers Association, Tongji University	<i>Oct 2007 – Dec 2008</i>
<b>ROEWE 550 commissioning Assistant</b>	Shanghai Automotive Industry Corporation	<i>Jun 2007 – Jul 2007</i>

## **SKILLS**

Systems: Linux, Windows, iOS

Software: Oracle database (OCP), MySQL, SQL Server 2005+, Visual Studio 2005+, Eclipse, Tomcat, Apache, GIT, SVN

Networking: TCP/IP, Service-oriented Architecture (Web Service), REST, JSON

Programming Languages: Java, Objective-C, C++, C#, Ruby on Rails, PL/SQL, Linux Shell (Bash, Csh)

Language: Chinese (good, native), English (good), Japanese (good)