

# Shiqian Jesse XU

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## EDUCATION

**North Carolina State University ( NCSU )**

**Raleigh, NC**

M.S. in Computer Engineering, Overall GPA: 4.0/4.0

*Aug. 2014 – Dec. 2015 (Expected)*

**Shanghai Jiao Tong University ( SJTU )**

**Shanghai, China**

B.S. in Electrical Engineering, Overall GPA: 3.5/4.0

*Sept. 2010 – Jul. 2014*

## RELEVANT COURSEWORK:

Design and Analysis Of Algorithms(A+), Computer Networks(A), Object-Oriented Design and Development(A+), Operating Systems Principles, Database Management concepts and Systems, Software Engineering, DevOps, Internet wireless Networks

## KEY SKILLS

**Computer Languages**

Java, Python, Ruby on Rails, C++, C#, MATLAB, JavaScript

**Databases**

MySQL, SQLite

**Professional Skills**

Fluent in Chinese, Interpretation Skills, Leadership, Volunteering

## INTERN EXPERIENCE

**Zhongxing Telecommunication Equipment Corporation**

*Jul. 2013 – Aug. 2013*

*Intern, Cloud computing & IT Institute*

- Wrote test design specifications based on requirements and user stories.
- Performed testing cases to examine the products performance on the Cloud computing environment.
- Diagnosed problems and fixed issues of ZTE IRAI Cloud computing system.

## ACADEMIC PROJECT

**DireWolf Job Portal App ( Ruby on Rails )**

- Build up entity relationships between employers, job seekers, and admins on MVC framework.
- Performed search and auto-mailing features on the website
- Fixed bugs via RESTful principle and expedited page load speed by 15 times in Open Source Project.

**Refactoring grades\_controller Class in Expertiza (Ruby on Rails, OSS)**

- Refactored methods on query of database in grades\_controller.rb and improved the system performance up to 98%.
- Reduced the complexity of several methods by removing unnecessary instance variables and loops inside.
- Improved Mailing function for instructors and adjusted the data loading pattern when rendering a new web page.

## RESEARCH EXPERIENCE

**Handover Technologies among Heterogeneous Networks on Smartphone**

*Oct. 2012 – Jul.2014*

*Research Assistant, Institute of Wireless Communication of SJTU*

- Put forward a new Multiple Attribute Decision Making algorithm on vertical handover among heterogeneous networks based on QoS, Time Delay, Download Speed, Optimum Load Balance, User Moving Pattern and Neutral Network to optimize the customer experience.
- Demonstrated and compared simulation results with existing algorithm in MATLAB.
- Wrote software demos in Java and tested on Android platforms.

**High Intelligent Geotechnical Sensor Signal Processing**

*Jun. 2012 – Oct. 2012*

*Research Assistant, Institute of Wireless Communication of SJTU*

- Set formats for SQL tables & interfaces and designed the software's Graphical User Interface (GUI) by using ZedGraph tools in C#.
- Designed tabs to monitor the system on both discrete time and continuous time. The Software was checked and accepted by R&D center in Wuxi and implemented into Bridge Monitoring.

## PATENTS& CERTIFICATE

- “Vertical handover decision algorithms based on Load Balance and Multiple QoS Parameters”, Inventors: Shiqian Xu, Guoqing Yao, etc., Chinese Patent, CN103648129A, Issued Date: Mar. 19, 2014.
- Certificate for IBM Job Role Academic Initiative (Training for Java Programmer)