



Jinlai Xu

Curriculum Vitae

Education

- 2012–Present **Master of Engineering(expected)**, *China University of Geosciences (211)*.
GPA – 89.9/100, Major GPA – 91.9/100
Major: Software Engineering
- 2008–2012 **B.E. in Software Engineering**, *China University of Geosciences (211)*.
GPA – 88.6/100, Major GPA – 92.9/100, ranked 1st/96.
Major: Software Engineering

INTERESTS

- Research Cloud Computing, Machine Learning, Computer Vision, Robotics.
Sports Basketball, Billiards
Life-style Geek

Research Experience

- 2012–Present **Research Assistant**, ROBOTICS AND ARTIFICIAL INTELLIGENCE LABORATORY, China University of Geosciences, Wuhan.
- Reviewed related literatures (mainly in Cloud Computing)
 - Responsible for the construction of the cloud computing platform for our faculty:
 - Designed the virtualization solution for the cluster.
 - Deployed Hadoop and related application on the cluster.
 - Supported the experiment of Deep Learning in our lab.
 - Studied MapReduce programming model and did some optimization on it:
 - Read the source code of MapReduce in Hadoop project.
 - Designed a system based on MapReduce to reuse the intermediate results and modified the core code of MapReduce.
 - Evaluated the performance on the cluster and then got the result that the system could improve the performance at about 20% compared with the previous optimization method.
 - Collected data and prepared to publish.
 - Responsible for the management of the cluster in our faculty:
 - Allocated the virtual machine and network resource.
 - Supported a mirror site on the cluster (<http://mirrors.cug.edu.cn>).
 - Adjust the network layout to satisfy the requirement of the users.

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- 2009–2012 **Undergraduate Research Assistant**, ROBOTICS AND ARTIFICIAL INTELLIGENCE LABORATORY, China University of Geosciences, Wuhan.
- Reviewed related literatures (mainly in Computer Vision and Robotics).
 - Participated in The 9th Robot Soccer Tournament of China in Changchun when I was a freshman.
 - Studied the architecture and implementation of ROS(The Robot Operating System) and preliminarily deployed it on the robots control panel (Version: RB100 by RoBoard) in our lab.
 - Successfully applied for The National College Students Innovation Experiment Program:
 - **Topic: Small Model Aircraft Autopilot System and Aerial Photo Research**
 - Chose Quadrotor(an aircraft with four rotors) as the carrier platform of the research.
 - Studied the theory of balancing the Quadrotor with MikroKopter(one of the most famous open source UAV projects).
 - Studied and implemented the point clouds registration algorithm ICP and RANSAC on ROS.
 - Used ASUS Xtion PRO (a device like Kinect) to get the point cloud data and evaluated the algorithm.
 - Wrote graduation thesis based on this topic.(Topic: the Design and Implementation of the Quadrotor Autopilot and 3-D Point Cloud Generation and Processing System)

Work Experience

- 2013–2014 **Teaching Assistant**, China University of Geosciences, Wuhan.
- Advanced Programming Language (JAVA)
 - Instructor: Prof. Shengwen Li

Honors & Awards

- 2013–2014 **Outstanding Student Award**, China University of Geosciences, China
- 2012–2014 **Graduate Student First-class Scholarship(per year)**, China University of Geosciences, China
- 2008–2011 **CUG First-class Scholarship (per semester)**, China University of Geosciences, China
- 2010–2011 **Fellows Scholarship**, China University of Geosciences, China
- 2009–2010 **National Scholarship**, Ministry of Education, China
- 2009 **The Second Prize of Fully Autonomous Humanoid Robot Soccer**, The 9th Robot Soccer Tournament of China, Changchun, China
- 2009 **The First Prize of Semi-autonomous Humanoid Robot Soccer**, The 9th Robot Soccer Tournament of China, Changchun, China

Languages

Chinese	Native proficiency	
English	Professional working proficiency	<i>Conversationally fluent</i>
TOEFL	Score:88	<i>May. 2014</i>
GRE	Score:313	<i>Jun. 2013</i>

Skills

Basic	JAVA, C++
Intermediate	PYTHON, L ^A T _E X, Linux ,Emacs, GitHub, Hadoop, Microsoft Windows, Power Point, Word
Advanced	Cloud Computing Infrastructure, Computer Vision

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Projects

- Oct.2013–
Jan.2014 **Leader**, THE CRM SYSTEM CUSTOMIZATION FOR A.X.W COMPANY, A.X.W tech, Wuhan.
- Based on Vtiger open source CRM system.
 - Customized the customer information module to satisfy the requirement of A.X.W company.
 - Combined the customer information module with the staff information module for convenient cause.
 - Designed and implemented the data transfer program from the old system(based on office software) to the new system(based on web)
- Jan.2012–
Oct.2013 **Programmer**, GEOLOGICAL EXPLORATION PROJECTS IN HENAN PROVINCE, Land and Resources in Henan province Scientific Research Institute, Zhengzhou.
- Participated in the Web Service Programming and Web site construction.
- Oct.2010–
Jun.2012 **Leader**, NATIONAL COLLEGE STUDENTS INNOVATION EXPERIMENT PROGRAM, **Topic: Small Model Aircraft Autopilot System and Aerial Photo Research**, Wuhan.
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