ZHANG, YANKUAN

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EDUCATION

MS 08/2015 – 05/2017 (Expected) · University of Southern California

Computer Science

- Introduction to Programming Systems Design
- Analysis of Algorithms
- Introduction to Computer Networks

BS 09/2010 – 06/2014 · China Agricultural University

Honors Program of Geographical Information System · Overall GPA: 3.73/4.00

- Principle of Geographical Information System
- Software Engineering
- Resources Management Information System
- Data Structure

LANGUAGE AND SOFTWARE SKILLS

Languages C/C++ · HTML/CSS · Java · JavaScript · LaTeX · Python · R · SQL

Software ArcGIS · Eclipse · Visual Studio

WORK EXPERIENCES

Research Assistant 06/2014 – 06/2015 · Key Laboratory of Agricultural Information Acquisition Technology (Beijing), the Ministry of Agriculture of China

Developed an algorithm to differentiate various types of maize on remotely sensed images using decision tree of multi-temporal vegetation index

Intern 01–03/2011 & 06–09/2011 · Dalian Keyuan United Electronics Co., Ltd.

Developed a management information system using Pascal and SQL

PROGRAMMING EXPERIENCES

Web App 10/2012 – 09/2013 · *PostPower*

Co-developed a web application for analyzing user posts on Renren (Chinese version of Facebook)

Website 07/2010 – 12/2010 · *Aquarius 071*

Co-developed a free resource website for exam preparation which was later nominated for the Google China Social Innovation Cup

RESEARCH EXPERIENCES

Image Algorithm 10/2013 – 06/2014 · China Agricultural University (CAU)

Applied the texture algorithm of the Binary Statistical Image Feature to classify various crops on remotely sensed high-resolution images

Data Analysis 04/2013 – 04/2014 · CAU

Processed the remotely sensed images of the agrarian-pastoral regions in China to test the correlations between the Drought Severity Index and selected climatic variables

App Development 04/2012 – 09/2012 · CAU

Co-developed a GIS-based prototype system to model and simulate the influence of terrain and precipitation in causing mudslides