

Dequn Zhang

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Education

- **Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China**

Master of Cartography and Geography Information System, estimated July 2017.

- **Henan Polytechnic University, Jiaozuo, China**

Bachelor of Geography Information System, graduated June 2014. Top 3%

Skills

- Familiar with **Data Structure** and **Algorithm**.
- Experience in web development(**Python, JavaEE, H5 + CSS3 + JS**), know **.NET**.
- Work on **Linux/OS X**, familiar with *CentOS/Ubuntu*, familiar in **PostgreSQL, PostGIS**.
- Basic experience of Hadoop, HBase.
- Use **Git** co-work with team, proficient in **vim, shell** and other tools.

Projects

- **Manage and Analysis of Massive Indoor Moving Objects based on Hase Subject/Designer/Developer Dec. 2015 - Present**

Description: Taking advantage of **HBase** to store massive data of indoor moving objects, build a **Spatial- Temporal Index** mainly by designing a resonable **row-key** of hbase, then make some data mining work on **Spark**.

Responsibilities: **a. Setting up basic environment** such as *Hadoop, Hbase, Spark* on a seven-nodes cluster, **b. design the row-key composition** based on the analysis of feature of *IMOs* , **c. TODO:provide API of data query** and do some **data-mining** work(expected in scala).

- [SendCats](#) **Co-founder/Front-end May. 2015 - Mar. 2016**

Description: A website built by students from *PKU, THU, UCAS* and other universities, aiming to construct a platform that can provide study resources, experience from sinor students, and own-service come from any student who has a

special skill.

Responsibilities: **a.** design and realize of **front-end**, code in *AngularJS* and *Bootstrap*, **b.** **test front-end** using *Karma*, **c.** **auto-deploy** by *Gulp*, **d.** complete **file upload/download** logic based on *Qiniu* cloud, and participate in part of product design.

- **HER Business Project/Developer Oct. 2014 - Mar. 2015**

Description: *HER* is short for Hazard, Exposure, Risk. It utilizes historical hazard data, exposure data, and insurance policy data to predict risk probability and whether a new policy is worth to take. Launched by a Dr. of Structure who resigned from a reinsurance company.

Responsibilities: **a.** Find, analyze and **crawl down** accessible hazard, exposure data, coded in Python, **b.** **design table structure** for GIS data on *PostGIS*, maintain database, **c.** provide **data query API** for business staff in *Java*.

- **A web campus map for Henan Polytechnic University based on Baidu Map JS-API Student Quality Training Program/Team leader/Developer Oct. 2012 - Jan. 2013**

Description: Build a **web campus map** for my own university based on free accessible map API.

Responsibilities: **a.** act as **team leader** of a six-people group, including data collectors and developers, **b.** **design and develop** system, *ASP.NET* for server side and *JS* for map showing and manipulation. **c.** establish and maintain *SQL Server* database.

Interns & Honors

- Allenaya, LLC. Beijing, China. Developer Oct. 2014 - Jan. 2015
- Key Lab. of Mine Spatial Information Technic, National Administration of Surveying, Mapping and GeoInformation, Jiaozuo, China Developer Oct. 2012 - May. 2013
- National Encouragement Scholarship, First-class Scholarship (twice), etc. 2011-2013
- 2015 Beijing Marathon, Dr. Chorus, Annual Conference of CSNR, 2015, etc. Volunteer 2014 - 2015