

# Dequn Zhang

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GitHub: <http://github.com/dequn>

## 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 Indoor Moving Objects on Hadoop, HBase**      **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 reasonable **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**  
*Descripton:* *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 datatbase, **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 Spaital Information Technic, National Administration of Surving, Mapping and Geolnformation, 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