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, exptected 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*, fimiliar in **PostgreSQL**, know mongo.

- Basic experience of Hadoop, HBase, Spark.

- Use **Git** co-work with team, proficient in **vim, shell** and other tools.

Projects

- **XiaoYuanXingKong** **Co-founder/Front-end   May. 2015 - Present**

  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.

- **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 *IMO*s , *c. TODO*:**provide API of data query** and do some **data-mining** work(expected in scala).

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

Descripiton: 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.

Responibilities: a. act as **team leader** for a six-people team, 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 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