

HAO ZHANG

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

- Master of Science in Geographic Information Science
- Illinois Professional Science Master's Concentration

Urbana - Champaign, IL
August 2016 - December 2017
GPA 3.96/4.00

ZHEJIANG AGRICULTURE & FORESTRY UNIVERSITY

- Bachelor of Science in Geographic Information System

Hangzhou, China
September 2012 - May 2016

EXPERIENCE

GARTNER

Web Development & Data Visualization Intern

Champaign, IL
May 2017 - Present

- Worked in web develop team using Agile method; Led the intern team in various web development tasks
- Developed back-end server and created **RESTful APIs** for web application using **Node.js**, **Express** and **SQL Server**
- Created **responsive** front-end UI using **AngularJS** framework, AngularJS Material Design, **Bootstrap** and **jQuery**
- Visualized results provided by big data analysis; Created highly customized visualizations with filtering, drill down functions using **NVD3** and **THREE.js**
- Built skills on Amazon Alexa to leverage data analysis using **Amazon Skills Kit**

ZHEJIANG AGRICULTURE & FORESTRY UNIVERSITY

Research Assistant

Hangzhou, China
September 2014 - November 2014

- Used Monte Carlo method to generate and simulate the elevation value in reality
- Combined probability into existing D8 algorithm to improve the accuracy of water flow calculation
- Fulfilled algorithms by writing **C#** programs

PROJECTS

CUMTD Bus Helper: LBS based web application

Champaign, IL

GitHub: <https://lucian33.github.io/CUMTD-WebApplication/>

Independent Project

February 2017 - May 2017

- Developed web application using **AngularJS** framework and **Google Map API**
- Visualized real-time bus location and route information of CUMTD services
- Created and designed **mobile-friendly responsive** UI using AngularJS material design and **CSS3 flexbox**
- Utilized **jQuery** and **AJAX** to update transportation JSON data acquired from CUMTD API on web map (**HTML**, **JavaScript**, **CSS**)

MANAGEMENT INFORMATION SYSTEM FOR ENDANGERED WOODS

Team Leader

Hangzhou, China
June 2015 - July 2015

- Designed the database for managing endangered woods; designed and implemented the user interface by **XAML**
- Realized a .Net framework web application in 3-tier structure using **WCF**, **ArcGIS API for Silverlight**, **SQL Server** with **C#** and PetaPoco, an **ORM** tool to encapsulate the data to object in the program
- Achieved functions such as load and display of the spatial data on the web map and basic database operation

PUBLICATION

Analysis of the Near-surface Wind Strength Based on GIS, Hu Chendi, Mo Fei, Liu Ruiling, Zhang Hao, Chen Yonggang, *Shandong Industrial Technology*, 2014-10-30, P129

ADDITIONAL

- Languages: English (Fluent), Chinese (Native)
- Certificated in SIYB (Start & Improve Your Business) training
- Software Skills: Visual Studio, SQL Server, ArcGIS, QGIS, AutoCAD, ENVI, MATLAB
- Programming Skills: JavaScript, C#, Java, Python, R, HTML, CSS
- Technologies: AngularJS, React, Node.js, Bootstrap, Express, jQuery, WebGL, Three.js