

## HAO ZHANG

1329 N Lincoln Ave • Urbana, IL 61801 • 217-904-4624 • haoz2@illinois.edu • <https://lucian33.github.io/portfolioWebsite/>

### EDUCATION

#### UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

- Master of Science in Computer Science

Urbana - Champaign, IL

January 2018 – May 2019

#### 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 / 4.0

### SKILLS

- Database & Software: SQL Server, MongoDB, ArcGIS, QGIS, AutoCAD, MATLAB
- Programming Skills: JavaScript, C++, C#, C, Java, Python, R
- Web Dev: AngularJS, React, Node.js, Bootstrap, Express, jQuery, WebGL, THREE.js, HTML, CSS, SASS

### EXPERIENCE

#### Gartner Inc.

Champaign, IL

#### Web Development & Data Visualization Intern

May 2017 - Present

- Worked in web develop and data scientists team using **Agile** method; Led the intern team in various web development tasks; Delivered fully-featured web application to stakeholders
- Developed back-end server and created **RESTful APIs** for web application (**Node.js**, **Express** and **SQL Server**); familiarized with web security issues such as **HTTPS** and **CORS**
- Created **responsive** front-end UI using **AngularJS** framework, 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** with the ability to export the data and graphs
- Built skills on Amazon Alexa to leverage data analysis using **Amazon Skills Kit**

### PROJECTS

#### Illini Rider: A LBS based Web Application for CUMTD Riders

Champaign, IL

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

February 2017 - May 2017

#### Independent Project

- Developed web application using **AngularJS** framework and **Google Map API**
- Visualized real-time bus location and route information of CUMTD services; provided departure information for each stop and latest public transportation news in a user-friendly way
- Created and designed **mobile-friendly responsive** UI using AngularJS material design and **CSS3 flexbox**
- Utilized **AJAX** to update real-time transportation JSON data acquired from CUMTD API on web map (**HTML**, **JavaScript**, **CSS**)

#### The Movie DB React Web Application

Champaign, IL

GitHub: <https://lucian33.github.io/Movie-Gallery-React-Web-application/>

October 2017

- Created a movie gallery using **React** and TMDB API; achieved multi-page routing using **React Router**
- Designed and created the UI using **Semantic UI React** components; Written the styling of this website using **SCSS** with **SASS CSS-preprocessor**
- Implemented functions such as searching, filtering and sorting with **ES6 JavaScript** using **Babel Compiler**

#### Photo Mix: A React Based Image Sharing Social App

Champaign, IL

Demo: [https://drive.google.com/drive/u/0/folders/1U2e\\_cH1vfz9fSc8NnSyOEMp79n6KaHeT](https://drive.google.com/drive/u/0/folders/1U2e_cH1vfz9fSc8NnSyOEMp79n6KaHeT)

October 2017

- Developed a social network web app for users to share creativity by posting pictures; Won the staffs' pick during the final projects competition
- Built the front-end using **Semantic UI**, **React** with responsive design and the abilities for user to upload, download image and post comment, like or dislike an idea
- Designed and implemented various data schema in using **MongoDB**; established back-end server with **RESTful APIs** using **Node.js**, **Express.js**

### ADDITIONAL

- Languages: English (Fluent), Chinese (Native)
- Certificated in SIYB (Start & Improve your own business)