

## Xueying Gu

Phone: (207) 249 2758      Email: xgujavascript@gmail.com  
LinkedIn: [www.linkedin.com/in/yingxuegu](http://www.linkedin.com/in/yingxuegu)  
Personal Projects: [www.guxueying.com](http://www.guxueying.com)  
GitHub: [github.com/yingxuegu](https://github.com/yingxuegu)

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### Objective

An employment opportunity in a computer science related field.

### Education

**University of Maine, School of Computing and Information Science**  
Master of Spatial Information Science and Engineering

September 2013 – December 2015

**Beijing Forestry University, College of Forestry,**  
Bachelor of Science in Geographic Information Systems

September 2009 – July 2013

### Work Experience

**Professional Service Intern, Esri, Redlands, USA**

May 2015 – August 2015

**Web Developer, Advanced Structures & Composites Center, Orono, USA**

April 2014 – May 2015

**Summer Intern Programmer, Fangshan District Environmental Protection Agency, Beijing, China**

July 2011 – September 2011

### Projects

**Dunkin's Donuts Locators**

May 2016 – May 2016

Link: [http://www.guxueying.com/Donkin\\_Donuts\\_Locators/#/](http://www.guxueying.com/Donkin_Donuts_Locators/#/)

The locator application can help people find DD store nearby. The user can input their address or zip code and filter the stores by select distance radius, Wifi option, Full Menu Option, Drive Through Option and Open Time Option. The web application also includes an interactive density map. The project is based on Angular, Leaflet and Google Map JavaScript API.

**Happy News Website**

March 2016 – April 2016

Link: <http://www.guxueying.com:3000/>

This project is to create a news website with Angular, MongoDB, Bootstrap, NodeJS and Express. It is built from scratch. The website also follows responsive design. News data is stored in MongoDB. The goal of this project is to help users find the news they like to read. Also, we can add, update and delete news from the admin page.

**Chrome Extension – History Wiper**

February 2016 – April 2016

Link: <https://chrome.google.com/webstore/detail/history-wiper/iahlekcomboaljagackjkigepnfaphkc>

It is a chrome extension which can stop record your history and browsing data about specific keywords. By default, it already has included some vulgarity and adult words. You can also add some website domain names by yourself. It is based on JavaScript and Chrome Extension API.

**Event Map**

July 2015 – August 2015

Link: [http://guxueying.com/event\\_map/src/](http://guxueying.com/event_map/src/)

The project is to create a website which people can publish their events. It is based on ArcGIS JavaScript API, Bootstrap, Dojo, ArcGIS Online and ArcGIS REST Service. The data is stored in ArcGIS Online. This project also has a dashboard page, which includes event data visualization and statistics. The procedures are as below.

1. Select one event type
2. Click the event location on the map
3. Input detail information about the event.

**Data Reviewer Widgets In Web AppBuilder**

June 2015 – August 2015

The project is to create a widget for Data Reviewer with JavaScript in ArcGIS Online. The widget is used to show and modify the life cycle of reviewing data. What I have done is as below.

1. Designed UI for the widget
2. Developed and implemented the widget with Dojo Framework
3. Used Data Reviewer API and ArcGIS JavaScript API

### **Kriging Algorithm Implemented With ArcGIS JavaScript API**

October 2015 – December 2015

Links: [http://www.guxueying.com/Arcgis\\_javascript\\_kriging/index.html](http://www.guxueying.com/Arcgis_javascript_kriging/index.html)

It is a project for Spatial Analysis course. The project has two versions. One version is implemented with R. In this release, I implemented Regression Kriging. Another version is implemented with JavaScript, HTML5, and ArcGIS JavaScript API.

### **Web Chat Online**

February 2015 – February 2015

Links: <http://www.guxueying.com/WebChat/login.php>

People can chat with another person online. The website is implemented with PHP, AJAX, CSS and MySQL. Messages are stored in MySQL. The procedure is as below.

1. Sign up and Login
2. Find a friend in your friend list
3. Send and get messages to him or her

### **Advanced Structures & Composites Center information system**

April 2014 – May 2015

- Designed and developed an information system for Advanced Structures & Composites Center with PHP (CodeIgniter), JavaScript and jQuery
- Created database by MySQL and programmed SQL scripts
- Developed Timesheet function for hourly students and monthly staffs to input timesheets
- Designed and implemented Office functions: Email function, PDF function
- Built inventory and lab managements modules
- Working with a team in the center to modify the system

### **Java Games**

March 2013 – June 2013

I programmed three games all by myself: Greedy Snake, Tetris and Super Mario. I have learned graphic programming and logical theories. By programming these games, I became familiar with Java.

### **EPA Information System**

July 2011 – September 2011

- Participated in building a new information system for Fangshan District EPA
- Encoded with .net framework and SQL Server to develop an office system
- Enhanced understanding of database and programming language in a real world environment

## **Computer & Language Skills**

- Programming Languages: JavaScript (Dojo, Angular), Java, PHP, Python, C
- Operating Systems: Linux, Windows, Unix
- Database: SQLServer, MySQL, PostgreSQL, MongoDB
- GIS Software: GeoServer, QGIS, ArcGIS Platform, Leaflet
- Writing Skills: Ability to efficiently produce concise, organized reports and labs
- Native Fluency in Mandarin Chinese
- Professional Working Proficiency in English