

Xueying Gu

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Personal Projects: www.guxueying.com
GitHub: github.com/yingxuegu

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

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.

JavaScript Game – Flappy Bird November 2015 – November 2015

Link: http://guxueying.com/flappy_bird/

The game is programmed with JavaScript and HTML5. From the project, I learn canvas of HTML 5 and requestAnimationFrame function. We can also play the game on mobile phones. I also use CocoonJS to transform the JS code into Android or iOS Apps.

Event Map July 2015 – August 2015

Link: 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

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

Leadership

President of GIS Club, College of Forestry, Beijing Forestry University
School Student Council, Beijing Forestry University

September 2010 – July 2011
2009- 2012

Honors, Awards & Certificates

- Won 3rd place in Spatial Analysis in the National University GIS Skills Competition (2011)
- Awarded with the National Motivation Scholarship (2011)
- Recognized as Outstanding Student Leader of Beijing Forestry University (2010)
- Awarded with the certificate of MapGIS cartographic engineer (2011)