

Xueying Gu

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Personal Projects: 104.236.199.200

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Objective

An employment opportunity in a computer science related field.

Education

The 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

JavaScript Game – flappy bird

November 2015 – November 2015

Link: http://104.236.199.200/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 by mobile phones. I also use CocoonJS to transform the JS code into Android or iOS Apps.

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

Identification module for GeoPlanner

May 2015 – July 2015

The module is used to identify values for each raster layer. It is useful for users to verify their models. My job is as below.

1. Designed and implemented raster functions to get data from each raster layer
2. Developed the module with ArcGIS JavaScript API and ArcGIS REST service

Kriging algorithm implemented with ArcGIS JavaScript API

October 2015 – December 2015

Links: http://104.236.199.200/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 version, I implemented Regression Kriging. Another version is implemented with JavaScript, HTML5, and ArcGIS JavaScript API.

Web Chat website

February 2015 – February 2015

Links: <http://104.236.199.200/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 friend list
3. Send and get messages to him or her

Calculator implemented with JavaScript:

January 2015 – February 2015

Links: <http://104.236.199.200/calculator/index.html>

It is a project for practicing JavaScript. The project is implemented with original JavaScript, HTML, and CSS. For this project, I used stacks to store operators and numbers. The calculator can calculate the string that includes operators ().

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 team in the center to modify the system

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

Java Games

March 2013 – June 2013

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

Computer & Language Skills

- Programming Languages: JavaScript (Dojo, Angular), Java, C#, PHP, Python
- Operating Systems: Linux, Windows, Unix
- Database: SQLServer, MySQL, PostgreSQL
- 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)