

Xu (Katherine) Liu

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Summary

- Experiencing in AngularJS MVC frameworks in the development of the Single Page Web App. Such as Validation checking, Animation, Angular Event.
- Using AngularJS services (such as resource, http) to hit server and get JSON data from API.
- Using JavaScript DOM manipulation and event to generate the data result in UI.
- Competent in AJAX frameworks like jQuery, JSON to develop rich GUIs and also involved in performance running the website.
- Experiencing in POST, GET, PUT derived data from database via PHP (JSON.php) or ASP.NET (SQL.aspx) and developed Web Services for data transfer from client to server and vice versa. Using Apache Axis, REST, WSDL and UDDI.
- Writing Unit Test depends on Jasmine2.3 for JavaScript.
- Using Gulp to automatically running task, like unit test, code validation checking, build local server etc.
- Built various designed patterns, such as services with business logic, and directives.
- Expertise in creating Responsive Website using Twitter Bootstrap3.3.5.
- Involved with cross browser testing and compatibility using Google Chrome, Firefox and Internet Explore.
- Hands on CSS preprocessors such as LESS and SASS.
- Good at creating functional specifications with visual design mockups in Adobe Photoshop, Adobe Illustrator and Adobe Flash.
- Excellent using Git for Version Control.
- Excellent understanding of Software Quality, Configuration Management and Software Release Practices.
- Experiencing managing daily communication with an offshore development teams.
- Experiencing to work in Agile Environment and worked with the Project Management tool like JIRA.

Technique Skills

Languages: HTML5 (master), LESS, CSS3 (master), JAVA (master), C++(master), MATLAB (familiar)

Web App: Twitter Bootstrap (master), AngularJS (master), NodeJS (master), Yeoman (Bower Grunt/Gulp)

Creative Skills: Photoshop (master), Adobe Illustrator (familiar), Microsoft Office (master)

Projects

AOL Inc.

AVATA – HIVE Query Web App

- Using AngularJS services to hit server to get JSON data, and display on the webpage.
- Query validation checking based on API.
- Creating the page for normal user to build queries.
- Creating the page for power user (like developer) to write queries, especially long queries.
- Watching whole pages, once the item status changed, auto reloads the data.

- Design the mocks for the whole apps by Adobe Photoshop and Adobe Illustrator.
- Responsive Website.

Self Projects

Aug. 2015 – Sep. 2015

Carefirst® Homepage – Twitter Bootstrap, AngularJS, jQuery

- Responsive Website, which means the website fits all the devices, kind like all different size of phones, tablets, desktop.
- Using JavaScript to do dynamic page
- Using AngularJS to do validation

Myself Homepage – AngularJS, jQuery

- Responsive Website
- Loading multi – pages
- Using AngularJS to create model, animation, and form validation.
- Using Twitter Bootstrap to create the website.

AngularJS Portfolio – AngularJS

- All the features about AngularJS

Purdue University

“Digital Image Processing” - Senior Design Matlab®

Sep.2013 – Apr.2014

- Implemented developing a computational approach, which can compute the component of the special shape.
- Marked all specified shapes out.
- Calculated the number of the special shapes.

Purdue University

“Bowling Games” - OpenGL C++

Sep.2014 – Dec.2014

- Implemented a 3D bowling games via Visual Studio.
- User can change the angles and the force (speed) of ball.
- Collision detections for ball and pins.
- Drew all the pins, ball, lane, and background.
- Calculated the shape of the pins.

Purdue University

“Instant Message” - Java

Mar.2015 – Apr.2015

- Designed UI of login, chatting window, and friend list window.
- Client/Server model, client connects server to send message and server finishes forward to the specified person.
- Server detects if the user is online or not (if online the label of the user is in color, or it's in gray image).
- Communication between server and client using socket.
- Using hash map to store the message package (project) and the source and destination ID.

Purdue University

“Restaurant Management” - Java

Apr.2015 – May.2015

- Designed UI of login and management window.
- Connecting to the database for authentication.
- Managing the restaurant like dishes price, human resource setting, statistics.

Working History

- **Professional-Technical Services, Aol, Sterling VA** **Aug. 2015 – Present**
Creating an app for HIVE query. There are two different designs, one is for power user, another one is for general non-developer user.
 - Developing on the Frontend side for Avata and DataCatalog Single Page Web app.
 - Design the app both for power user and general non-developer user.
 - Using AngularJS services (Resource) to hit the server and get the JSON data.
 - Using AJAX to check login and access (Authentication and Authorization).
 - Query validation, based on API.
 - Using Gulp to create auto tasks.
 - Using NPM (node package manager) to manage all the packages, frameworks etc.
 - Using Jenkins for Frontend, Backend and QA testing.
 - Using Git (stash) for version control.
- **Teaching Assistant, Purdue University Calumet, Hammond IN** **Sep. 2014 – Jun. 2015**
 - Assisting in course ECE 152 about C++ Programming.
- **Instructor Assistant, University of Electronic Science and Technology of China, Chengdu, P.R.China** **Sep. 2011 – Jul 2012**
 - Assisting in managing lab class in Network Security.
- **Communication and Career Skills Enhancement Training Program, VIT University, Vellore, India** **July 2011 – Aug 2011**
 - Designing an email platform via SMTP.

Education

Purdue University <i>Master of Science in Electric and Computer Engineering</i>	Hammond, IN Aug 2013 – May 2015 <i>GPA: 3.53 / 4.00</i>
Purdue University <i>Senior year and doing senior design</i>	Hammond, IN Aug 2012 – May 2013
University of Electronic Science and Technology of China <i>Bachelor of Science in Computer Science and Engineering</i>	Chengdu, P.R.China Sep 2009 – Jun 2013 <i>GPA: 3.00 / 4.00</i>