

Roxie Zhao

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SUMMARY

- **Front-end Developer**
- Good experience using **HTML5/CSS3** development.
- Expertise in client scripting language and server side scripting languages like **JavaScript, JSON, Bootstrap, Node.js** and **Angular.js**.
- Developed Cross Browser code targeting Internet browser technologies including Mozilla Firefox, Apple Safari and Google Chrome.
- Good Understanding of **Document Object Model (DOM) and DOM Functions**.
- Good understanding of **Model View Controller (MVC) Pattern**.
- Worked on all phases of **Software Development Life Cycle (SDLC)** including requirements gathering through client interaction, Design, Documentation, Development, Integration, Testing, Configuration and Production Support.
- Established and managed multiple project scopes along multiple timelines and schedules.
- Having Strong written and oral **communication skills**. With the ability to convey concepts/requirements between technical and non-technical stakeholders.
- Quick at learning and problem solving skills. Great Team player.

EDUCATION

Syracuse University,

M.S. Computer Science, Syracuse, NY

May 2015

Zhengzhou University,

B.S. Information System and Management, Zhengzhou, Henan

May 2013

Fort Hays State University,

B.S. Information Networking and Telecommunications, Hays, Kansas

May 2013

TECHNICAL SKILLS

Programming Language	:	JavaScript, C/C++
Web Development	:	JavaScript, JSON, HTML5, CSS
JavaScript Libraries	:	Angular.js, Express.js, Node.js, XML
IDE & Tools	:	Visual Studio, Android Studio, Notepad++, Sublime Text Editor.
Debugging Tool	:	Firebug, Chrome
Database	:	MongoDB, Redis, SQL, MYSQL
Operating Systems	:	macOS, Ubuntu, Unix/Linux, Windows, Raspbian
Others	:	Docker, Nginx, XML, LINQ, UML

PROFESSIONAL EXPERIENCES

Black Sails Technology Inc., Sunnyvale, Software Developer

Sep 2016 - Now

Video Management Dashboard (Web components, Node.js, Express.js, JavaScript, Redis, MongoDB)

- ✓ Used costume element, shadow root and HTML import to assemble customized web components
- ✓ Developed web components that can be nested to each other that satisfies more complicate functionalities
- ✓ Developed a full set of web components library of video management dashboard
- ✓ Developed APIs of the dashboard that provide login, sign up, upload, transcoding etc.
- ✓ Used Redis to store transcoding process and MongoDB to store video and user information
- ✓ Used docker to host nginx, node redis and mongoDB at server

GoPro Control Pannel (JavaScript, python, Express.js, Raspbian, ffmpeg)

- ✓ Used 6 raspberry pis to connect 6 GoPro cameras using Wi-Fi connection.
- ✓ Supports one-click power on/off, on-click recording on/off, camera status monitoring and stream preview
- ✓ Each raspberry pi hosts a node server to relay data between cameras and a python server
- ✓ Developed a python server that connects to all 6 raspberry pis' node servers to analyze and relay data to the front end
- ✓ Used ffmpeg to transcode camera streams
- ✓ Developed a front end that offers control buttons and shows 6 cameras' recording screen as well as each camera's setting and status

TV remote app (JavaScript, HTML, CSS)

- ✓ Developed a web application that uses cellphones as remote to control VR video player on TV
- ✓ Used Angular.js, Express.js to assemble the app
- ✓ Developed a trackpad that controls the coordination of VR video and supports tab, double click, secondary click, scroll, zoom and drag

Official Website (Angular.js, Node.js, JavaScript)

- ✓ Used Bootstrap grid system to line up sections of the web page.
- ✓ Used angular.js ng-view to from a single page web application and keep the navigation bar on top of each web pages
- ✓ Used Angular.js i18n to support a multilanguage web application and injected \$translateProvider dependency to change website language at run time.
- ✓ Used json file to store information in different languages
- ✓ Used service to store, share and return common data between controllers
- ✓ Created restful API for user to get access data from database
- ✓ Developed FEVR Business feature set in Node.js with Express and MongoDB backend

PREVIOUS PROJECTS

Employment Management System --- MEAN stack based web application

(Express.js, Angular.js, MongoDB, HTML5, CSS)

- ✓ Used HTML/HTML5, CSS/CSS3 for styling web pages.
- ✓ Created employee information table using bootstrap .table class, which shows basic information of employee's subordinate and support create, edit, delete functions.
- ✓ Used ng-view to route different request to index, home and create html files and each html page has a different controller associate with it to make their functions separated.
- ✓ Used Multer library to upload employee's photo to server and created a function to allow user to preview the picture before uploading it.
- ✓ Used Express.js to form back-end logic and used it as the model to store all information of employees
- ✓ Created a restful API which provides read, create, edit, delete individual employee as well as uploading image and show subordinate list.
- ✓ Developed a circle free JavaScript algorithm to prevent employee assigning his/her subordinate as manager when editing information.
- ✓ Used JavaScript classes to create an employee class, which include name, title etc. basic information, save, manage as his/her ID and save the image as a path.
- ✓ Used MongoDB schema such as find, save update and remove to do operations within the database.

Story Maker --- .Net web application

(MVC, ASP.NET, C#, REST API)

- ✓ Used HTML/HTML5, CSS/CSS3 for styling web pages.
- ✓ Used Bootstrap classes to style and clean up view layer and used UI libraries to add up animations to make a

more user friendly UI appearance to caught users' attention

- ✓ Used Bootstrap components, containers, Front Icons and grid system for creating the layouts for one of the Website.
- ✓ Used Bootstrap Button class, table class and input class to form a styled and neat user management list
- ✓ Used W3school's css classes to add divider, font, boarder and drop down list to show all eligible categories.
- ✓ Designed and created a website allowing users to register and login as members and create, delete, read and upload/download stories (text and images)
- ✓ Used ASP.NET MVC Entity Framework 6 code first mechanism and coded with c#
- ✓ Implemented a WebApi web service and WPF client that supports uploading and downloading stories
- ✓ Used Linq and JavaScript to record, display, analyze and manage information from XML file. Built SQL Server database customers' information

SU Bus --- Android Application

(Java, MySQL, PHP, Android Studio)

- ✓ Developed a bus scheduling and statuses exchanging platform, used PHP and JSON to communicate with and access information from server database which is built on XAMPP using Slim Framework
- ✓ Utilized knowledge of UI Widget like Master/Detail Flow to make the UI suitable for different kinds of screens
- ✓ Used ViewPager for screen slide and graphics animation for background image transformation.
- ✓ Used Action bar, Navigation Drawer to show basic functionalities while saving screen space.
- ✓ Used RecyclerView to create a list that use less resources and GridView to create
- ✓ Used Google map API to locate bus and users' location in order to perform real time tracking and report
- ✓ Built a server and created a REST API that supports brows, create, edit and delete user information.
- ✓ Stored users data in MySQL, and used JSON and PHP to support data transformation and storage.

2016 Fishackathon Coding Competition --- Python scrapy based Web application

(Python, Scrapy, Java, Angular.js)

- ✓ Developed a search engine that have a more comprehensive information of fishing vessels
- ✓ Used Bootstrap for website styling
- ✓ Used Angular.js to do the front-end logic and make it a single page web application and use it as a controller to request data from back-end then show them on the web page
- ✓ Used scrapy to scrap information from 3 different vessel information website and formed a json files
- ✓ Converted the json files into more than 5000 formatted information and built a SQL Server database to store them, coded with Java

INTERNSHIP

Henan 863 Software Incubator, China, Jr Software Developer

May 2014 –Aug 2014

- ✓ Built and implemented employee management system using c++
- ✓ Documented system and helped customer with installation and use
- ✓ Designed a management system for business that including the payment system which can calculate employee salary, and the location system which pinpoints employees' coordinates
- ✓ Developed a screensaver program that shows different shapes of graphs when computer goes to sleep. Using polymorphism to display different shapes and STL container to store random graphs

VOLUNTEER EXPERIENCE

Financial GPS Group, Volunteer Front-end Developer

Jul 2016 – Now

- ✓ Developed FGG web application using wordpress
- ✓ Help shape IT strategic vision and drive key departmental objectives.
- ✓ Assist in website traffic and performance monitoring
- ✓ Designed complex interfaces to support third party systems
- ✓ Responsible for web daily maintenance and performance tuning