

# Haotian Qu

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## Education

|   |                           |                   |
|---|---------------------------|-------------------|
| The George Washington University, Washington D.C. | M.S. Computer Science     | 09/2014 – 05/2016 |
| Fuzhou University, China                          | B.E. Software Engineering | 09/2010 - 06/2014 |

## Skills

|                       |   |
|-----------------------|---|
| Programming Skills:   | Java, Android, Ionic, Cordova, SpringMVC, Hibernate, AngularJS, HTML, CSS, JavaScript |
| Database Software:    | MySQL, MongoDB, PostgreSQL, Oracle  |
| Programming Software: | Eclipse, IntelliJ, Android Studio   |

## Work Experience

**Ace Info Solutions, Inc. (Software Engineer)** 06/2016 – Present

**Client: National Oceanic and Atmospheric Administration**

- Work under **Agile** software development, build **prototype** to gather user requirements
- Independently build **responsive** modern **cross platform** mobile apps by using **Ionic, AngularJS**
- Write **RESTful APIs** to provide web services and transmit **JSON** data between server side and client side
- Use **PostgreSQL** to build the database
- Use **Github** for version control and team corporation
- Assist in building the AceInfo Centers of Excellence website based on **Drupal** to make the web pages more **responsive**
- Participated in **DHS FLASH IDIQ Challenge**, assisted in clarifying project requirements, and built website by using **AngularJS, Angular Material**

**Ace Info Solutions, Inc. (Java/Mobile Developer)** 03/2016 – 05/2016

**Client: National Oceanic and Atmospheric Administration**

- Go on with work on Station Information System;
- Started working on **Java RESTful API**.

**Ace Info Solutions, Inc. (Summer Intern/Mobile Developer)** 06/2015 - 08/2015

**Client: Environmental Protection Agency**

- Built **responsive** web prototype by using **Java SpringMVC, Hibernate** to upgrade current system;
- Designed fashion features by using multiple UI libraries such as **Bootstrap** to make system more user friendly;
- Tried different **hybrid app** frameworks, decided to use **Cordova** and **jQuery Mobile** in development

## Java Experience

**Personal Blog (Individual Project)** 08/2015 - present

**Brief Description:** Personal blog, deployed on Heroku, <https://tommyqublog.herokuapp.com>

- Designed the front-end **responsive** web pages by using modern libraries such as **Bootstrap**
- Used **AngularJS** for **data-binding** and **data-displaying** to create dynamic web pages
- Built the back-end server by using **Java SpringMVC** which contains controllers, repositories and services
- Integrated **Apache Maven** to manage dependencies
- Created **NoSQL** database by using **MongoDB** and deployed on mLab.com

## C Online Learning Platform (Group Project)

02/2013 -06/2013

**Brief Description:** An online learning platform, which can help beginners for C programming learning.

- Built the front webpages using **JSP, jQuery**
- **Struts 2** is mainly used as the MVC framework
- Created **MySQL** database to store all the users and resources data
- Used **TortoiseSVN** for collaboration and version control
- Wrote **Data Access Objects** and **Servlets** to handle user requests and response data to the client side
- Built a **c programming language compiler** which can compile code that user submit

## Multi-function Reader (Individual Project)

09/2013 - 01/2014

**Brief Description:** A Java desktop reader, which is compatible with txt, pdf and epub books.

- Used **Java Swing** to build the user interface
- Created a server by using **PHP**
- Transmitted data by using **JSON**
- Compiled pdf, epub files by using **PDFBox, Epublib**
- Users can create their own bookshelf and manage their books
- Users can register in the software and upload and download books in the server

## Android Experience

### Toe Daily (Individual Project)

09/2016 - present

**Brief Description:** An android app can be used in daily life, record your daily moods, manage your schedules

- Use **Android Studio** as IDE tool for the development
- Build database and back-end service on **Google Firebase**
- **Google Volley** is used for **HTTP** transactions
- Use **Github** for collaboration and version control
- Integrate **third party libraries** in **Gradle** to provide rich features for the app

### Share Your Cuisine (Group Project)

08/2015 - 12/2015

**Brief Description:** An android app for foodies to share receipts, tweet microblogs and create events for social activities.

- Used **Android Studio** as IDE tool for the development
- Built database and back-end service on **Parse.com**
- Integrated multiple libraries such as **Picasso, DateTimePicker, FishBun, CircleImageView** to give a fashionable user interface and enrich user experience
- Used **Github** for collaboration and version control

### Android Optimization Assistant (Individual Project)

03/2014 – 06/2014

**Brief Description:** An Android app, which can help users, manage their apps on the cell phone and optimize their memory. The app also includes an Android online market for users to compare their cell phones.

- Used **Eclipse** with **ADT** tool for the development
- Wrote **RESTful APIs** by **Java EE** to provide back-end services
- **ActivityManager** was used to observe and manage running activities