

# ALVIN (MENG) CAO

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## EDUCATION

**THE GEORGE WASHINGTON UNIVERSITY, School of Engineering and Applied Science**

**Washington DC**

**Master of Computer Science**

*Nov 2016*

- GPA:4.00/4.00

### Courses list

Design and Analysis of Algorithms

Computer System Architecture

Advanced Software Paradigms

Software Testing & Quality

Full Stack Application Engineering

Database Management Systems

Software Engineering

Object-Oriented Design

Information Retrieval Systems

In-progress: Big Data & Analytics

**DALIAN UNIVERSITY OF TECHNOLOGY, School of Materials Science**

**Dalian China**

**Bachelor of Engineering, Materials Science**

*July 2014*

- GPA:3.38/4.00

- Academic Scholarship, Prize of Social Work, Prize of Spiritual Advanced, Prize of Excellent Student Cadre

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, SQL, Ruby, HTML, CSS

**Frameworks & Skills:**

- Dropwizard, Struts2, Spring4, Hibernate4, Dropwizard, JSP, AngularJS, jQuery, Bootstrap.
- MySQL, SQL Server, MongoDB.
- Concurrency, Git, Linux.

## WORKING EXPERIENCE

**SUNRISE SENIOR LIVING**

*McLean, VA*

*Software Development Intern*

*Aug 2016 – Now*

- Refined Report Distribution Protocol (RDP) database which contains 60 tables and 3 million records with SQL Server Management Studio. Integrated and modularized stored procedures with T-SQL.
- Converted SSIS implementation for RDP from VB to T-SQL to simplify execution.
- Applied WinSCP as new FTP client to achieve auto-synchronization. Updated SQL script with WinSCP syntax.

**ANSHAN HUAQIANG TECHNOLOGY COMPANY LIMITED**

*Liaoning, China*

*Software Development Intern*

*June 2014 – Aug 2014*

- Developed performance appraisal system with Struts2 after researching client's leadership structure.
- Participated in designing the main rating algorithm. Achieved the controller part and configuration part.
- Provided user privileges management. Located bugs according to user's feedback. Released 2 versions.

**STATE GRID LIAONING BRANCH**

*Liaoning, China*

*Software Development Intern*

*Jan 2014 – May 2014*

- Provided user access management for State Grid Liaoning branch's power monitor system.
- Participated in virtualization of servers and workstations to improve system's performance.

## PROJECT EXPERIENCE

**PERSONAL WEBSITE** *Side Project*

*Jan 2016 – May 2016*

- Built a dynamic RESTful website with AngularJS, jQuery, Dropwizard, Hibernate and Java. Achieved as Single-Page Application with AngularJS. Designed as RESTful with Dropwizard.
- Deployed front-end and back-end separately to Heroku. Applied remote AWS PostgreSQL database and remote Cloudinary file system. Contains development and production environment.
- Provided unit testing, integration testing and mock testing with Junit and Mockito. Contains API, logic and DAO layer. Designed as service-oriented, interface-oriented.

**STACKOVERFLOW CLONE** *Course Project*

*Sep 2015 – Nov 2015*

- Built a full-stack website which contains the main function of Stackoverflow with Struts2, Spring4, Hibernate, JSP and jQuery.
- Included authentication, authorization, e-mail system, user management system and log system. Achieved live chat with Firebase. Applied SimHash as question recommendation algorithm.

- Provided unit testing and integration testing. Designed as service oriented. Applied Test Driven Development strategy. Contains independent web API and DAO layer.

**MOVIE RECOMMENDATION ENGINE** *Course Project*

*May 2015 – July 2015*

- Built a movie recommendation website with Java, JSP, Struts2 and Mahout.
- Applied mahout as clustering recommendation engine. Achieved user-base and item base recommender with user's history rating data.
- Designed to be enterprise-ready. Could accept multiple formats of data to give other recommendation such as restaurant, product, music and social networking.