

## ALVIN (MENG) CAO

202-8189050 • [meng\\_cao@gwu.edu](mailto:meng_cao@gwu.edu) • <http://www.linkedin.com/in/mengcao2015> • personal website: <http://www.alvinmc.com>

### EDUCATION

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

**Washington, DC**  
*May 2016*

- GPA:4.0

#### Courses list

- Design and Analysis of Algorithms, Computer System Architecture, Advanced Software Paradigms, Software Testing & Quality, Full Stack Application Engineering, Database Management Systems
- In-progress: Software Engineering, Object-Oriented Design, Information Retrieval Systems

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

**Dalian China**  
*July 2014*

- GPA:3.4 2nd Level of Academic Scholarship (Top 5% on academic performance), Social Contribution Award (28/720), Spiritual Scholarships (28/720), Merit Student Leader (Top 8%)

### TECHNICAL SKILLS

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- Programming Languages: Java, Ruby, JavaScript, SQL, HTML, CSS
- Frameworks & Skills: Struts2, Spring4, Hibernate4, JSP, Ruby on Rails4, AngularJS, jQuery, Bootstrap, MySQL, Mahout, MongoDB, Git

### PROJECTS

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#### PERSONAL WEBSITE

*Nov 2015 – Now*

- Built a personal website with AngularJS and NodeJS, achieved it as a SAP, deployed by Heroku.
- Built front page with Bootstrap, AngularJS and jQuery. Used remote PostgreSQL database.

#### STACKOVERFLOW CLONE

*Sep 2015 – Nov 2015*

- Built a website which contains the main function of Stackoverflow with Struts2+Spring4+Hibernate.
- Built with Bootstrap, JSP, jQuery and simHash, included e-mail system, user system and live chat function.
- Used service oriented architecture, test driven development. Had independent web API layer, business logic layer and DAO layer.

#### MOVIE RECOMMENDATION ENGINE

*May 2015 – July 2015*

- Created a movie recommendation website with Mahout searching engine and Struts2.
- System can recommend movies based on movie review history.
- For each certain movie, system can found another ten related movies according to the movie type and the one million rating records.

#### LINER SYSTEM SIMULATOR

*Mar 2015 – May 2015*

- Used Java to simulate a liner computer with CPU, memory, hard drive and cache.
- Achieved most of the instructions. Users can edit their own instruction set and operate it on the liner system.
- Included error code and resolve code. Achieved flow control.

### EXPERIENCE

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#### ANSHAN HUAQIANG TECHNOLOGY COMPANY LIMITED

**Anshan, China**

*Intern, Programming*

*June 2014 – Aug 2014*

- Developed leadership performance appraisal system with Struts2 after investigating the leadership structure of company,
- Built the main rating algorithm, achieved the controller part (more than 100 .class files) and configuration
- Provided the background rights management, debugged and version upgrading service( from 1.0.0 to 1.1.3)

#### DIGITAL CHINA HOLDINGS LIMITED

**Shenyang, China**

*(No.3 in 2014 Fortune China 500, No.1 in the same industry rank)*

*Intern, Project*

*Jan 2014 – May 2014*

- Provided maintenance, port and right management for State Grid Liaoning branch's whole computer system
- Participated in debugging and feedback of a new version of power monitoring system and taught workers how to use it
- Achieved the computer virtualization within a LAN(130 desktops and 50 workstations) and took in charge of logic connection part ,improved the efficiency of 35% and saved energy for 15%

### ADDITIONAL INFORMATION

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**Community:** 3-year active volunteer at Dalian (China) Volunteer Association with over 300 service hours  
Volunteer at [www.51cto.com](http://www.51cto.com) , teaching Struts2 and JSP  
Active subscriber in CodeSchool.

**Languages:** Fluent in English Native in Chinese