Jim Mao

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Education	**Tufts University School of Engineering,** Medford, MA
	B.S. Computer Science (May 2016), GPA: 3.46

Coursework   Web Engineering, Web Programming, Algorithms, Operating Systems, Programming Languages, Machine Structure and Assembly Language Programming, Data Structures, Linear Algebra, Calculus I/II/III

Skills   **Programming Languages:** C, C++, Java, Javascript, Python, Ruby
Software/Technologies: Ajax, Apache Maven, Bootstrap, CSS, DOM, Drools, HTML5, Eclipse, Linux, Heroku, JBOSS, jQuery, JSON, JSP, JSTL, MongoDB, MySQL, Node.js, Oracle DB, RabbitMQ, Ruby on Rails, Spring MVC, XML, XSLT
Methodologies: Agile/Scrum Software Development
Work Authorization: U.S. Citizen, Department of Defense – Secret Clearance (May 2013 – May 2023)
Languages: Chinese

Work Experience   **The MITRE Corporation,** Bedford, MA
Software Engineering Intern (May – Aug. 2013, Jun. – Aug. 2014)

- Developed appealing web browser XSLT display of a synthetic data version of an IRS1040EZ XML using publicly available schemas
- Engineered editing of stored XML from client side JSP page converting HTML back to XML
- Enabled dynamic display of transformed XML using jQuery Accordion template and JSTL
- Implemented a JSP scriptlet method to retrieve data from a properties file outside the WAR file built by Maven
- Produced JSP form to retrieve a mocked IRS return status from an Oracle database
- Devised a way using the Spring MVC Framework to pass an record ID from the controller to the JSP page view

Tufts University Department of Computer Science, Medford, MA
Teaching Assistant – Intro to Computer Science (Sept. 2013 – Dec 2013)
                 *– Data Structures (*Jan 2014 – May 2014)

- Assisted students in lab, answered questions on Piazza forum, and held one-on-one office hours to explain overarching fundamentals in C++

Projects   **Tufts Chinese Students Association Website,** *Web Designer/Developer*
URL: http://ase.tufts.edu/csa
GitHub Repository: https://github.com/jmao01/Tufts-CSA-Website