

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++, Javascript, Java, 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 <i>Software Engineering Intern</i> (May – Aug. 2013, Jun. – Aug. 2014) <ul style="list-style-type: none">• 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 <i>Teaching Assistant – Intro to Computer Science</i> (Sept. 2013 – Dec 2013) <i>– Data Structures</i> (Jan 2014 – May 2014) <ul style="list-style-type: none">• 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 , <i>Web Designer/Developer</i> URL: http://ase.tufts.edu/csa GitHub Repository: https://github.com/jmao01/Tufts-CSA-Website