**David Wu**

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|  | **Work**  **MTS Developer, Sandbox (9/12 – Present)**  **AMTS Developer, Sandbox (6/11 – 9/12)**  **Salesforce.com, San Francisco, CA**   Proposed, designed, and implemented a project to improve sandbox creation time and consistency by generating denormalized database tables   Investigated, triaged, debugged, and fixed customer production issues   Worked on partial data copy initiatives to control database space growth on sandbox instances and improve sandbox copying times   Developed Pig scripts to parse log line data used to gather sandbox capacity data   Reduced point-in-time error occurrences in customer sandboxes by implementing a data consistency fixer between two database tables  **Software Engineer Graduate Intern (6/10 – 9/10)**  **Cisco Systems, San Jose, CA**   Implemented a user role and authentication system  using Django for a device-management security product   Created a front-end login screen by leveraging XWT  widgets, Dojo, HTML, and AJAX calls   Developed custom middleware to moderate user  authentication across the application  **Software Engineer Intern (6/08 – 8/08)**  **Cisco Systems, San Jose, CA**   Ensured stability of legacy router features by using QTP  to run and debug regression tests   Developed scripts to improve the efficiency of router-  testing automation by twofold   Generalized a job-dispatching script to handle more use cases  **CS3L Head TA (1/08 – 5/09)**  **UC Berkeley, Berkeley, CA**   4.8/5 overall rating   Taught students twice a week, organized classroom and online content, and managed a team of graders  **Education**  **University of California, Los Angeles**  M.S. Computer Science, expected 2013  **University of California, Berkeley**  B.A. Computer Science, May 2009 |  | **Skills**  **Languages:** Java, Ruby, Rails, jQuery, C, Scheme  **Editors:** Emacs, Vim, Eclipse, Visual Studio  **Operating Systems:** Linux, OSX, Windows  **Databases:** Oracle, PostgreSQL  **Logging:** Pig, Splunk  **Research**  **Pentago, Prof. Richard Korf (1/10 – Present)**  Researched, implemented, and modified various game-theory algorithms to find the game-theoretical value of Pentago  **URAP, Prof. Carlo Sequin (9/07– 5/09)**  Collaborated with a team of students to create data structures and optimize search algorithms for finding symmetrical Hamiltonian cycles on complex polytopes  **Gamescrafters, Prof. Dan Garcia (8/06 – 12/06)**  Worked under a research team to implement Pentago and integrate it with the Gamesman game-solving framework  **Selected Projects**  **User-guided Image Segmentation:** Researched and implemented Live Wire and three other image-segmentation algorithms and combined them into one algorithm that maximized the repeatability and speed of user image segmentation  **5-um:** Worked in a team of three to generalize Beast—an open-source Ruby on Rails forum framework—to add an extra forum-management layer, topic pagination, a friend system, and personal messages. The project was voted 2nd best project in the class  **Activities**  **Upsilon Pi Epsilon (UPE)**  Member (9/07 – Present)  President (8/08 – 12/08)  Industrial Liaison (1/08 – 12/08)  Historian (1/08 – 12/08)  **National Society of Collegiate Scholars (NSCS)**  Member (12/05 – Present) |
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