

# JEAN SUNG

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## EDUCATION

Harvey Mudd College (HMC), Claremont, CA  
B.S. Computer Science - Major GPA: 3.4

Expected May 2016

## COURSEWORK

Advanced Algorithms | Artificial Intelligence | Data Structures | Domain Specific Languages  
Digital Electronics & Comp. Engineering | Image Processing | Linear Algebra & Diff. Eqs. II

## SKILLS

*Languages:* Python, Java, C++, MATLAB, C, Objective-C, Go,  $\text{\LaTeX}$   
*Tools:* Git, SVN, Unix/Command Line, Xcode, Eclipse  
*Software Development:* Agile methods, User Testing, MVC framework

## EXPERIENCE

- Project Manager for Real-Time Data Analysis System**, Laserfiche-HMC Clinic Fall 2015-Present
- Building a data warehouse system to handle flexible unstructured data
  - Developing trend analysis algorithms to work across different types of data
- Software Engineering Intern for Personalization and Relevancy Team**, zulily Summer 2015
- Conducted feasibility research on a price prediction model that resulted in saved company resources
  - Designed, implemented, tracked results for several experiments involving novel ways of arranging the site
- Programming Languages Researcher**, HMC Summer 2014
- Created a physics simulator to help students draw and visualize force vectors in Java with jMonkey
  - Presented work at the *CCSC Southwest Region Conference*, Awarded 3rd place for poster
- Educational iPad App Developer**, HMC Summer 2013
- Re-factored, added new features to, and published educational iPad apps for middle school students
  - Primary game, Hammy Coaster available at <https://itunes.apple.com/app/hammycoaster/id674765438>
  - Presented work at the *Celebration of Women in Computing in Southern California Conference*

## PROJECTS

- Sum Plus Plus** (<http://jeansung.github.io/SumPlusPlus/>) Fall 2014
- Created a domain specific language to more cleanly express weighed sums with custom constraints
  - Designed a translation suite for English rules to Excel formulas
- Pipe Dream!** (<https://itunes.apple.com/us/app/pipe-dream!/id947630499>) Fall 2014
- Created an educational iPad game to teach middle school students about computer security
  - Gained experience in agile development process, teamwork, architecture design and user testing
  - Winner of the 2015 Computer Science Department Wing Tam Award for Best Software Development Project

## ADDITIONAL EXPERIENCE

- Volunteer Lead Instructor for Girls Who Code** Fall 2014 -Present
- Preparing and teaching weekly lessons on CS fundamentals for 20 middle school students
- Head Computer Science Grader and Tutor**, HMC Fall 2013 -Present
- Intern for Office of Institutional Diversity**, HMC Fall 2014 -Spring 2015
- Initiated and implemented office task automation projects
  - Streamlined the RSVP system with Google Apps, saving one hour of staff time per event
  - Helped plan events that promoted awareness of social justice issues
- Java and Scratch Programming Instructor**, iD Tech Summer Camps Summer 2014
- Developed lesson plans and taught introductory programming to middle school students

## ACTIVITIES

Red Cross Campus Blood Drive Coordinator | W-ACM Chapter Campus Representative | Dorm Social Representative