

**Yan Duan**  
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<http://www.rockyduan.com>

## Education

- **University of California, Berkeley** Berkeley, CA  
*Expected Graduation: Spring 2014* *Aug. 2011 - Present*
  - Major in Mathematics, Computer Science, and Statistics
  - GPA 3.95 by end of spring 2012.

## Course Work

- Mathematics  
Multivariable Calculus, Mathematical Analysis, Real Analysis, Abstract Algebra, Linear Algebra, Differential Equations, Combinatorics
- Computer Science  
Data Structures, Machine Structures, Algorithms, Artificial Intelligence, Computer Vision
- Statistics  
Probability and Statistics at an Advanced Level, Statistical Learning Theory

## Experience

- **EdX** *Jun 2012 - Sep 2012*  
*Web Developer*
  - Worked on the discussion platform used in EdX.
- **CoursesSharing** *Feb 2012 - Sep 2012*  
*Web Developer*
  - Worked on interactive question editor for an online education platform used in Berkeley. Later merged into edX.
- **BCSSA IT Department** *Sep 2011 - Present*  
*Webmaster*
  - Routine website management. Refer to <http://bcssa.us/wp/>.
  - Wrote a small program to match people in a speed-dating social event.
- **MIT InvenTeam** *Jan 2011 - Jun 2011*  
*Web Developer*
  - Developed the demo website for the project *Central Control System of Taxis*
  - Wrote codes for the simulation of taxi, the control system with three allocation algorithms, and the interaction between the front end and server. Refer to <http://smsmit.org/display/>.

## Skills

**Programming Languages** Python, Ruby, JavaScript, Matlab, R, C/C++, Java, Common Lisp, PHP, Pascal

**Web Frameworks** Django, Ruby on Rails, Node.js

**Operating Systems:** Mac OS X, Linux (Ubuntu), Windows

**Miscellaneous** Excellent algorithm designing skills

## Other Projects

- A website to share math problems. Prototype in progress. Refer to <http://dev.innostaa.com/>.
- A pdf cutter written in Python to cut scanned two-page documents into one-page format. Refer to <https://github.com/dementrock/pdfcutter>.
- A web service for Berkeley students to monitor course enrollment status and course page modifications. Refer to <https://github.com/dementrock/ninjahelper> and <http://ninjahelper.com/> (currently being refactored and offline).
- An online pastebin which supports LaTeX and markdown with real time preview. Refer to <https://github.com/dementrock/texbin> and <http://texb.in/>.
- Command-line style homepage: <http://www.rockyduan.com>.

## Awards

- Coding for Grub
  - 2nd Place, Nov. 18 2011
- ACM Intercollegiate Programming Contest, Pacific NW Region
  - 10th Place, 2011
- Berkeley Programming Contest
  - 2nd Place, 2012
  - 4th Place, 2011
- National Olympiad in Informatics (NOI), China
  - 3rd Prize, 2010
- National Olympiad in Informatics in Provinces (NOIP), China
  - 1st Prize, Senior Division, 2010
  - 1st Prize, Senior Division, 2009
  - 2st Prize, Senior Division, 2008
- S. - T. Yau High School Mathematics Awards
  - 2nd Prize, Regional (Southern Region), 2010