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<http://www.rockyduan.com>
<https://github.com/dementrock>

Education

- **University of California, Berkeley**
Expected Graduation: Spring 2014
– Major in Mathematics, Computer Science, and Statistics
– GPA 3.964 by end of Fall 2012.
Berkeley, CA
Aug. 2011 - Present

Course Work

- Mathematics
Multivariable Calculus, Mathematical Analysis, Topology and Analysis (one-year sequence)¹, Mathematical Logic, Abstract Algebra, Linear Algebra, Differential Equations, Combinatorics
- Computer Science
Data Structures, Machine Structures, Operating Systems, Algorithms, Artificial Intelligence, Computer Vision¹
- Statistics
Probability and Statistics¹, Statistical Learning Theory¹, Time Series¹

Experience

- **EdX**
Web Developer
– Worked on the discussion platform used in edX.
Jun 2012 - Sep 2012
- **Coursesharing**
Web Developer
– Worked on interactive question editor for an online education platform used in Berkeley. Later merged into edX.
Feb 2012 - Sep 2012
- **BCSSA IT Department**
Webmaster
– Routine website management. Refer to <http://bcssa.us/wp/>.
– Wrote a small program to match people in a speed-dating social event.
Sep 2011 - Present
- **MIT InvenTeam**
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/>.
Jan 2011 - Jun 2011

Skills

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

Web Frameworks Django, Ruby on Rails, Sinatra, Flask, Node.js

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

¹Graduate level courses.

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
 - 4th Place, 2012
 - 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