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                                         http://www.rockyduan.com

Education

- **University of California, Berkeley**   Berkeley, CA
  Freshman   *Aug. 2011 - Present*
  - Intend to double major in Mathematics and Computer Science.
  - GPA 3.88 by end of 2011 fall semester.

Course Work

- Mathematics

  Multivariable Calculus, Real Analysis, Abstract Algebra, Linear Algebra, Differential Equations, Combinatorics

- Computer Science

  Structure and Interpretation of Computer Programs, Data Structures, Machine Structures, Discrete Mathematics and Probability Theory, Efficient Algorithms and Intractable Problems, Introduction to Artificial Intelligence

Experience

- **Coursesharing**
  Web Developer   *Feb 2012 - Present*
  - Working on an amazing open education platform.

- **BCSSA IT Department**
  Webmaster   *Sep 2011 - Present*
  - Routine website management. Refer to http://bcssa.us/wp/.
  - Wrote a small program to match people in a speed-dating social event.

- **MIT InvenTeam**
  Web Developer   *Jan 2011 - Jun 2011*
  - 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, 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/ (kind of a helper for the schedule website http://ninjacourses.com/).

- 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

- 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