

Falcon Dai

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Education

The University of Chicago, Chicago, IL

GPA: 3.76. graduated in June, 2012 with *Honors B.S. in Mathematics* and *Honors B.A. in Physics*.

Experience

New Venture Challenge, Booth School of Business, University of Chicago, IL

Contestant, October 2011 - January 2012

- > Originated the idea of a mobile business that improves shopping experience by providing in-store item locations.
- > Drafted a formal business proposal including market research and revenue projection with teammates.

Summer Research Experience, University of Chicago, IL

Technical Support for Large Area Multichannel Plate Photo Detector Project and Quantum Computing Project, June 2009 - September 2009, June 2010 - September 2010, June 2011 - September 2011

- > Modeled the secondary electron emission process, implemented simulation programs, and analyzed experiment signal data.
- > Learnt basic concepts and theories in signal processing and printed circuit board design.
- > Familiarized collaborating in a team with relatively flat organizational structure.

Computer Science Department and Mathematics Department, University of Chicago, IL

Grader for Introduction to Programming (C++), *Introduction to Scientific Computing* and *Honors Calculus*, October 2010 - November 2011

- > Graded more than 30 students' work per week with detailed corrections, comments and guidance.

Cross-Strait Student Leader Conference, University of Chicago CCCI, Chicago, IL

Organizer, January 2010 - August 2010

- > Organized the event with teammates and designed the field research component as a group leader.
- > Created and maintained the event website which hosted a live webcast.

Honors

- > Student Marshal of Class 2012 (a University distinction given to the top 5% of the graduating class)
- > Finalist in University of Chicago's on-campus Mobile App Challenge Contest, 2012
- > James Franck Institute Summer Undergraduate Research Fellowship, 2011
- > Co-founder of the Engineering Society at University of Chicago, 2010
- > 23rd team (out of 138 teams) at International Collegiate Programming Contest (ICPC) regional, 2010
- > 2nd team at Alamo regional Science & Engineering Fair; Honorable Mention at Texas state, 2007

Skills

- > Programming: languages (Python, Java, C++, Matlab script), Android apps (ADK), networking applications (via TCP/UDP communications), multi-threading/multi-processing apps, web apps frontend (HTML5, CSS3, Javascript, jQuery) and backend (Flask, PostgreSQL), visualization (WebGL, OpenGL), data visualization (d3js).
- > Graphic design work (SVG, Inkscape, Photoshop) and visual art.
- > Software acquaintance: Eclipse, Git, Mathematica, Octave/Matlab, LaTeX, Inkscape, Windows, Linux.
- > Fluent in Mandarin and Cantonese.

Interests

- > Personal: travel, photography, cooking, drawing, fixing electronics.
- > Academic: artificial intelligence, machine learning, computer vision, cryptography, quantum mechanics, logic.