



**Education**

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September 2006 - May 2010

**Columbia University**

New York, NY

Fu Foundation School of Engineering and Applied Science

- Master of Science, Computer Science, May 2010
  - Cumulative GPA: 4.05 of 4.33
- Bachelor of Science, Applied Mathematics, February 2010
  - Cumulative GPA: 3.97 of 4.33, Summa Cum Laude
  - Won the Applied Mathematics faculty award
- Relevant Coursework:
  - Computer Science: Operating Systems ■ Programming Languages & Translators ■ Analysis of Algorithms ■ Database Systems ■ Artificial Intelligence ■ Computational Complexity ■ Topics in Graph Theory
  - Mathematics: Dynamical Systems ■ Modern Analysis ■ Stochastic Models ■ Numerical Methods ■ Complex Analysis

<b>Key Words</b>
<a href="#">analysis</a> <a href="#">computer</a> <a href="#">system</a> <a href="#">systems</a> <a href="#">data</a> <a href="#">development</a> <a href="#">through</a> <a href="#">applied</a> <a href="#">ruby</a> <a href="#">numerical</a>
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**Experience**

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June 2010 - Present

**Google, Inc.**

New York, NY

Software Engineer

- Front-end web developer for DoubleClick for Publishers.

June 2009 - December 2009

**Middish.com**

Middlebury, VT

Co-Founder

- Creating and maintaining a crowd-sourced translation website in Ruby on Rails, with partner/co-founder Matthew Park
- Awarded a grant for seed funding from winning the Middlebury College Stonehenge Entrepreneurship Competition; judged by a panel of venture capitalists and entrepreneurs
- Designing an intuitive interface and improving it iteratively through usability testing and other user feedback
- Deployed application through hosting service Heroku using git version control system
- Marketed product to students at Middlebury College Summer Language School through personal contacts and print media; also utilized various web services and social media to reach a broader audience

May 2007 - June 2010

**American Express Publishing**

New York, NY

Intern, Developer

- Implemented new features and bug fixes for the redesign and deployment of the Travel and Leisure website
- Collaborated with 8 other developers on a shared code base using Subversion version control system
- Delivered presentations of new products and features to project manager and product owners, and incorporated their feedback into future development cycles. Applied Scrum agile software development principles with two-week development cycles to quickly integrate new requests. Used bug tracking system JIRA to organize and prioritize backlogged tasks
- Gained experience with the entire project management life cycle: from initial planning stages of wireframe creation and data mapping, to the final stages of public beta and official launch
- Created Adobe Bridge interface using Javascript and XML for internal use; to organize, edit, and track image data
- Migrated more than 3000 data entries of geographical locations from Excel to PostgreSQL programmatically, using a combination of Visual Basic and Ruby scripting

**Examinations**

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- GRE - July 2009
  - 800 (Math) / 660 (Verbal) / 4.5 (Writing)
- Society of Actuaries Exam P/1 (Probability) - May 2008
  - 10 out of 10
- SAT - March 2005

- 800 (Math) / 740 (Verbal) / 770 (Writing)

## Microsoft College Puzzle Challenge

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- Annual competition in solving computer science, mathematics, and linguistics puzzles
- Team placed first at Columbia out of over 20 teams from 2007 to 2009. Third place nationwide in 2009.

## Skills & Interests

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- Technological: Java, C, Ruby on Rails, SQL, Maya, MATLAB, LISP, Microsoft Office
- Mathematical: Modeling, linear programming, numerical methods, PDE's, complex analysis, simulation
- Conversational in Mandarin Chinese
- Avid hiker, snowboarder, and amateur foodie

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