John J. Wang

(email): wangjohn@mit.edu, (cell): 630-699-2227

8100 Middlebury Ave.
Woodridge, IL 60517

Education

- **Massachusetts Institute of Technology** — Cambridge, MA
  B.S. in Computer Science, B.S. in Mathematics; GPA:4.9/5.0 — *Aug. 2010 – May 2014*
  - Coursework: Computer Security (Graduate), Algorithms (Graduate), Number Theory, Chaos Theory, Differential Equations, Real Analysis, Linear Algebra, Classical Mechanics, Probability
- **Illinois Mathematics and Science Academy** — Aurora, IL
  Composite ACT: 36; Total SAT: 2300; GPA: 4.0/4.0 — *Aug. 2007– Jun. 2010*

Open Source Contributions

- **Ruby on Rails**
  Among Top 2% of Contributors All Time — *2013–present*
  - Fixed longstanding memory leak problem, built database querying features, and optimized model associations.
  - Reconstructed internal structure of Rails initialization for Google Summer of Code Project.

Work Experience

- **Palantir Technologies** — Palo Alto, CA
  Software Engineer Intern — *May 2013 - Aug. 2013*
  - Won Hack Week (out of 100+ teams) with collaborative graph for large-scale data analysis.
  - Designed and implemented an extensible notifications framework for alerting users of updates.
- **37signals** — Cambridge, MA
  Software Consultant — *May 2013 - Aug. 2013*
  - Improved inline history and comment pagination in Basecamp product.
- **Panjiva, Inc.** — Cambridge, MA
  Software Engineer Intern — *May 2012 - Aug. 2012*
  - Created an office command center which visualized data and alerted engineers to server and site failures, optimized Panjiva China site for search engines, and developed an automatically updating status page.
- **Morningstar, Inc.** — Chicago, IL
  Intern – Quantitative Research Department — *Jun. 2011 – Aug. 2011*
  - Constructed stock forecasting model based on machine learning and genetic programming algorithms.
- **The MathWorks, Inc.** — Natick, MA
  Econometrics Intern – Computational Finance Department — *Jan. 2011 – Feb. 2011*
  - Programmed prototype of Matlab tool for probabilistically determining regime changes in data.

Academic Research Experience

- **MIT Department of Mathematics, Applied Math Group** — Cambridge, MA
  Lord Foundation Undegraduate Researcher – Dr. Tristan Gilet, Advisor — *Sep. 2010 – May 2011*
  - Developed a mathematical model using nonlinear differential equations for describing how pathogens disperse from crops during rainfall, leading to insights for higher crop yield.

Skills and Activities

Web Development: Ruby on Rails, Javascript, Coffeescript, Backbone.js, Handlebars.js, jQuery

Programming: Ruby, Python, Java

Awards: Peter J. Eloranta Undergraduate Research Fellowship, Tau Beta Pi Honor Society, National Merit Finalist, Illinois State Scholar

Undergraduate Activities: MIT Golf Team Captain, MIT Undergraduate Economics Association Activities Chair, Phi Sigma Kappa Secretary, MIT Masters Swim Team

Hobbies: Golf, Swimming, Literature