

# mattgoldman

software engineer

## contact

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www.mattgoldman.us

## programming

Java

SQL

C

Python

Scheme

HTML, CSS, JS

## software

Mac, Linux, Unix

L<sup>A</sup>T<sub>E</sub>X

Microsoft Office

Certified Google Power

Searcher

## experience

June 2016-

**Mark43**

New York, NY

*Software Engineer*

2015

**Merck & Co., Inc.**

Branchburg, New Jersey

*Summer Intern, Applied Technology Group*

- Worked on Horizon 3 software engineering projects in Python and Java.
- Designed and implemented submodule of a larger webservice using the OpenL Tablets decision tables engine.
- Became a core team member on experimental project exploring data provenance and similarity.
- Developed software in Scrum/Agile development environment.
- Collaborated with remote teams in Boston and Washington, D.C.

2008-2014

**Storming Robots, LLC**

Branchburg, New Jersey

*Instructor*

- Taught classes in robotics, programming, and video game design to students in grades two through twelve.
- Used the Lego Mindstorms RCX and NXT programmed in RoboLab (Labview) and RobotC (C).
  - Carnegie Mellon Robotics Academy Certified RobotC/Mindstorms Instructor
  - Taught advanced level RobotC programming including inter-robot communication using Bluetooth and XBee, I2C interfacing, and low level motor feedback control.

## education

May 2016

**B.S. in Computer Science, B.A. in Math**

Rutgers, the State University of New Jersey

*Honors Undergraduate Student, Presidential Scholar*

- Computer Science classes:
  - Computer Algorithms
  - Graph Theory
  - Principles of Programming Languages
  - Systems Programming
  - Compilers
  - Operating Systems Design
  - Internet Technology
  - Foundations of CS (Graduate level course on complexity and computability)
  - Computer Structures (Graduate level computer architecture course)
  - Database Management
- GPA: 3.97
- Inducted into Phi Beta Kappa Society as a Junior
- Received 2014 Academic Excellence Award, awarded to the top 10% of sophomore students
- Member of Honors Program in the School of Arts and Sciences
- Minor: Physics

## awards and honors

- 2015      **Phi Beta Kappa Society**      Rutgers, the State University of New Jersey  
*Honor Society*
- “The oldest and most prestigious liberal arts honorary society in the United States.”
  - “To be nominated in the junior year, students must...have a cumulative average of 3.800 or above.” ([pbk.rutgers.edu/about-pbk](http://pbk.rutgers.edu/about-pbk))
- 2012      **Presidential Scholarship**      Rutgers, the State University of New Jersey  
*Undergraduate Scholarship*
- Awarded to students with competitive academic credentials, minimum 2250 combined SAT or an ACT score of 35 and an A grade-point average.
- 2012      **Olcott Major Scholarship**      Bernards High School, Bernardsville, New Jersey  
*Undergraduate Scholarship*
- Awarded to a top student in the graduating class as selected by the Somerset Hills School District Board of Education.

## other experience

- 2005-2011      **Robotics Team**      Branchburg, New Jersey  
*Storming Robots, LLC*
- Member of a local robotics team competing in various competitions, including:
    - RoboCup Junior from 2008 through 2011, fielding Lego Mindstorms NXT robots programmed in RobotC in the Soccer event. Used advanced I2C sensors such as compass and infrared seeker.
    - ZeroRobotics in 2010 and 2011. This is a competition created by MIT and NASA in which competitors get to play a game with MIT’s SPHERES robots on board the International Space Station. The robots are programmed in C, and in 2011 my team came in 1<sup>st</sup> out of all teams competing.
  - Completed many other robotics projects, including
    - Rocky IV, a robotic hand that plays rock-paper-scissors against a human opponent, using an accelerometer to track the player’s hand position.
    - Cerberus, an all-terrain rover that uses GPS to retrace a pre-recorded path input by the user.
  - More information about these projects and others can be found at my website, [mattgoldman.us](http://mattgoldman.us)

**Hobbies:** playing guitar (classical, acoustic, and electric), solving crossword puzzles, reading, watching classic movies