

# Akshay Ravikumar

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## Education

2014 – 2018 **Bachelors in EECS**, Massachusetts Institute of Technology, *GPA – 5.0*

- Intro to EECS
- Software Construction
- Signals and Systems (current)
- Intro to Machine Learning
- Intro to Algorithms
- Design/Analysis of Algorithms (current)
- Differential Equations
- Software Studio (current)
- Computation Structures (current)

2010 – 2014 **Class of 2014 Salutatorian**, Foothill High School, *GPA – 4.45*

## Experience

June 2015 – **Software Engineering Intern**, Akamai Technologies, (Cambridge, MA)

- Creating an application and web interface to evaluate the efficiency of different Forward Error Correction algorithms in a realistic network environment. Using JavaScript, C++, and Bash.
- Analyzing data from the production network to assess loss, latency, etc. Using Java and Python.

Jan 2015 **Software Engineering Intern**, EmbedUR Systems, (Fremont, CA)

Migrated a C-based application from MySQL to Cassandra, a distributed database management system.

Oct 2014 – **Research Intern**, MIT Space Systems Lab, (Cambridge, MA)

Dec 2014 Tested/modified an OpenCV-based application that enables SPHERES satellites to dock with each other.

June 2013 – **Research Intern**, Stanford Institute of Medicine Research Program, (Stanford, CA)

Aug 2013 Directed a three-person research project to computationally analyze prostate cancer biomarkers.

## Awards

Jan 2015 Fourth Place in the MIT IAP Web Programming Competition

Dec 2014 Top 500 Scorer in William Lowell Putnam Mathematical Competition

Oct 2014 First Place in Media/Advertising at the Harvard Hackfest

2010 – 2014 Two-time USAMO Qualifier, Two-time USAJMO Qualifier

2013 USA Computing Olympiad, Silver Division

## Projects

Sep 2015 **Lexicon**, [www.playlexicon.me](http://www.playlexicon.me)

Currently making a multiplayer online version of a popular word game using Node, Express, Angular, and Firebase.

Jan 2015 **Fleek**, [www.fleekon.me](http://www.fleekon.me)

Created a website with friends to provide a more dynamic, engaging database of math and science competition problems. Performed data accumulation and visualization in Python and JavaScript.

## Leadership

June 2015 – **Outreach Chair**, Harvard-MIT Math Tournament

Sep 2014 – **Class Assistant and Grader**, Art of Problem Solving

2011 – 2014 **Co-founder**, Pleasanton Math Circle ([pleasantonmathcircle.com](http://pleasantonmathcircle.com))

## Skills

Basic C, JQuery, MongoDB, Bash

Intermediate L<sup>A</sup>T<sub>E</sub>X, C++, Java, Python, JavaScript, Git, Linux, Node.js, AngularJS