

# 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 4th place in the MIT IAP Web Programming 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).

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, Github, Linux, Node.js, Angular.js