

Akshay Ravikumar

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Education

2014 - 2018 **Massachusetts Institute of Technology**

Bachelors in Electrical Engineering and Computer Science, GPA: 5.0/5.0

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

2010 - 2014 **Foothill High School (Pleasanton, CA)**

Class of 2014 Salutatorian, GPA: 4.45 (weighted)

Work Experience

June 2015 - **Akamai Technologies** — *Software Engineering Intern*

- Creating an application to evaluate the efficiency and accuracy of different Forward Error Correction algorithms in a realistic network environment.
- Analyzing data from the production network to assess loss, latency, etc.
- Creating a web interface to run application and gather data.

Jan 2015 **EmbedUR Systems** — *Software Engineering Intern*

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

Oct 2014 - **MIT Space Systems Lab** — *Research Intern*

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

Sep 2014 - **Art of Problem Solving** — *Class Grader/Assistant*

Assisting in online math/computer science classes and providing feedback on homework.

Nov 2011 - **Pleasanton Math Circle** — *Co-Founder*

June 2014 Cofounded a math circle to educate 60 students on abstract math concepts. (pleasantonmathcircle.com).

June 2013 - **Stanford Institute of Medicine Research Program** — *Research Intern*

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

Skills

Basic C, JQuery, MongoDB, Bash

Intermediate \LaTeX , C++, Java, Python, Javascript, Github, Linux