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
- Advances in Computer Vision (Fall 2015)
- Intro to Machine Learning
- Intro to Algorithms
- Design/Analysis of Algorithms (Fall 2015)
- Differential Equations
- Software Studio (Fall 2015)
- Computation Structures (Fall 2015)

2010 - 2014 · **Foothill High School (**Pleasanton, CA**)**
GPA: 4.45 (weighted), Class of 2014 Salutatorian

Work Experience

June 2015 - · **Akamai Technologies** — *Software Engineering Intern*
- Creating an application to evaluate the efficiency of different Forward Error Correction algorithms in a realistic network environment.
- Analyzing data from the 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 algorithm from MySQL to Cassandra, a distributed database management system.

Oct 2014 - Dec 2014 · **MIT Space Systems Lab** — *Research Intern*
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 - June 2014 · **Pleasanton Math Circle** — *Co-Founder*
Cofounded a math circle to educate 60 students on abstract math concepts. (pleasantonmathcircle.com).

June 2013 - Aug 2013 · **Stanford Institute of Medicine Research Program** — *Research Intern*
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, Cassandra, MongoDB
Intermediate · LaTeX, C++, Bash, Java, Python, Javascript, Github, Linux
Advanced · Math