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)

2014–2018	**Class of 2014 Salutatorian**, *Foothill High School*, *GPA − 4.45*.

Experience

June 2015 –	**Software Engineering Intern**, Akamai Techonlogies, Cambridge, MA.

- Creating an application and web interface 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.

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 – Dec 2014	**Research Intern**, MIT Space Systems Lab, Cambridge, MA.

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

June 2013 – Aug 2013	**Research Intern**, Stanford Institute of Medicine Research Program, Stanford, CA.

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*.

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

Jan 2015	**Fleek**, *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.

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)

Skills

Basic	C, JQuery, MongoDB, Bash
Intermediate	LaTeX, C++, Java, Python, Javascript, Github, Linux, Node.js, Angular.js