Akshay Ravikumar

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Education

2014 – 2018   **Bachelors in EECS**, Massachusetts Institute of Technology, *GPA – 5.0*
- Intro to EECS
- Probability and Random Variables
- Software Studio (current)
- Intro to Machine Learning
- Intro to Algorithms
- Design/Analysis of Algorithms (current)
- Differential Equations
- Software Construction
- Computation Structures (current)

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

Experience

June 2015 – Oct 2015   **Software Engineering Intern**, Akamai Techonlogies, (Cambridge, MA)
- Created 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.
- Analyzed 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 – 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   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
Currrently 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 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)

Skills

Basic   C, JQuery, MongoDB, Bash

Intermediate   LaTeX, C++, Java, Python, JavaScript, Git, Linux, Node.js, AngularJS