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 Techonlogies, (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
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