

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 – **Software Engineering Intern**, Akamai Technologies, (Cambridge, MA)
- Oct 2015
- Created an application and web interface to evaluate the efficiency of different Forward Error Correction algorithms in a realistic network environment. Used JavaScript, C++, and Bash.
 - Analyzed data from the production network to assess loss, latency, etc. Used 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 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
- Currently 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