



# Akshay Ravikumar

akshayr.me | (925) 413-6077

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## Education

### Massachusetts Institute of Technology

Bachelors in Computer Science  
2014 – 2018 | Cambridge, MA  
GPA: 5.0/5.0

### Foothill High School

Class of 2014 Salutatorian  
2010 – 2014 | Pleasanton, CA  
GPA: 4.45

## Coursework

*\* = current*

Network and Computer Security (6.857)\*  
Computer System Engineering (6.033)\*  
Design and Analysis of Algorithms (6.046)  
Software Studio (6.170)  
Introduction to Machine Learning (6.036)  
Introduction to Algorithms (6.006)  
Software Construction (6.005)  
Computation Structures (6.004)  
Probability and Random Variables (18.440)

## Awards

- **Top 500 Scorer**, Putnam Math Competition
- **First Place in Media/Advertising**, Harvard Hackfest
- **Two-time Qualifier**, USA Math Olympiad and USA Junior Math Olympiad
- **Silver Division**, USA Computing Olympiad

## Leadership

- **Outreach Chair**, Harvard-MIT Math Tournament
- **Class Assistant**, Art of Problem Solving
- **Co-founder and Website Designer**, Pleasanton Math Circle (pleasantonmathcircle.com)

## Skills

Python, Java, JavaScript, JQuery, Node.js, AngularJS, MongoDB, HTML, CSS, Bash, *LaTeX*, C++, Git, Linux

## Experience

### Lytmus | Software Engineering Intern

Jan 2016 – Present | San Francisco, CA

- Writing RESTful API Routes to interact with third-party vendors
- Implementing whitespace watermarking to prevent cheating

### Akamai Technologies | Software Engineering Intern

Jan 2015 – Oct 2015 | Cambridge, MA

- Created an application and web interface to evaluate error correction algorithms. Used JavaScript, C++, and Bash.
- Analyzed data from the production network to assess loss, latency, etc. Used Java and Python.

### Embedur Systems | Software Engineering Intern

Jan 2015 | Cambridge, MA

Migrated a C-based application from MySQL to Cassandra, a distributed database management system.

### MIT Space Systems Lab | Research Intern

Oct 2014 – Dec 2014 | Cambridge, MA

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

### Stanford Institute of Medicine Research Program | Intern

Jun 2012 – Aug 2013 | Stanford, CA

Directed a three-person research project to computationally analyze prostate cancer biomarkers.

## Projects

### Notably | notably.xyz

- Worked with classmates to create a collaborative note-taking application. Used Node, Angular, Socket.io, JQuery.
- Won **Best Feature Set** in MIT Web Design Class.

### Lexicon | playlexicon.me

Making a multiplayer online word game using MongoDB, Express, Angular, Node.

### Fleek | fleekon.me

- Worked with classmates to create a dynamic database of math/science problems. Used Python and JavaScript for data visualization and accumulation.
- Won **Fourth Place** in MIT Web Programming Competition.