



# Akshay Ravikumar

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## Education

### Massachusetts Institute of Technology

B.S. and M.Eng. in Computer Science  
Class of 2018, GPA: 5.0/5.0

## Selected Coursework

Computer Systems Security (6.858)  
Machine Learning (6.867)  
Performance Engineering (6.172)  
Operating Systems (6.828)  
Network and Computer Security (6.857)  
Distributed Systems Engineering (6.824)  
Design and Analysis of Algorithms (6.046)  
Software Studio (Web Development) (6.170)

## Awards

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

## Leadership

**Webmaster**, MIT Eta Kappa Nu (HKN) Honor Society (2017 – 2018)  
**Teaching Assistant**, Design and Analysis of Algorithms (Fall 2017)  
**Teaching Assistant**, Introduction to Algorithms (Fall 2016, Spring 2017)  
**Outreach Chair**, Harvard MIT Math Tournament (2015 - 2016)  
**Co-founder and Website Designer**,  
pleasantonmathcircle.com (2011 - 2016)

## Skills

Python, Go, JavaScript, Java, Scala, C++,  
jQuery, Node.js, AngularJS, MongoDB,  
HTML, CSS, Bash, ~~ET~~<sub>E</sub>X, Git, Linux

## Experience

### Two Sigma Investments (Summer 2017)

Software Engineering Intern

Implementing features for a realtime analytics dashboard platform.  
Using Scala, Java, and JavaScript.

### MIT Spoken Language Systems Group (Spring 2017)

Researcher

Ran experiments to analyze the effects of a character LSTM on  
neural machine translation performance. Used Lua.

### Google (Summer 2017)

Software Engineering Intern

Implemented features to increase the robustness of automated  
testing on the Android App Streaming team. Used Go.

### Lytmus (January 2017)

Software Engineering Intern

Wrote a REST API to interact with third-party vendors and  
implemented anti-cheating measures. Used Python and JavaScript.

### Akamai Technologies (Summer 2015)

Software Engineering Intern

- Created an application to evaluate Forward Error Correction algorithms. Used JavaScript, C++, and Bash.
- Used machine learning methods to analyze the production network and assess loss, latency, etc. Used Java and Python.

### Embedur Systems (January 2015)

Software Engineering Intern

Migrated an application from MySQL to Cassandra. Used C.

## Projects

### Notably (notably.xyz)

- Worked with classmates to create a collaborative note-taking application. Used Node.js, AngularJS, Socket.io, MongoDB.
- Won **Best Feature Set** in MIT Web Development Class.

### Fleek (fleekon.me)

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