



# 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

## Coursework

*\* = Fall 2017*

Natural Language Processing\*

Computer Systems Security

Machine Learning

Performance Engineering

Operating Systems

Network and Computer Security

Distributed Systems Engineering

Design and Analysis of Algorithms

Software Studio (Web Development)

## 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**, pleasantmathcircle.com (2011 – 2016)

## Skills

Python, Go, JavaScript, Java, Scala, C++, JQuery, Node.js, AngularJS, MongoDB, HTML, CSS, Bash, ~~TeX~~  $\LaTeX$ , Git, Linux

## Experience

### Two Sigma Investments (Summer 2017)

Software Engineering Intern

Implemented an application to streamline the creation and deployment of realtime analytics dashboards. Used 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 2016)

Software Engineering Intern

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

### Lytmus (January 2016)

Software Engineering Intern

Wrote a REST API to integrate the application with a third-party vendor. 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.