



# Akshay Ravikumar

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## Education

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### Massachusetts Institute of Technology

S.B. in Computer Science and Engineering,  
M.Eng in EECS

2014 – 2018 | Cambridge, MA

GPA: 5.0/5.0

## Coursework

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*\* = current*

Computer Systems Security (6.858)\*  
Machine Learning (6.867)  
Performance Engineering (6.172)  
Operating Systems (6.828)  
Computer Vision (6.819)  
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

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

## Leadership

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- **Teaching Assistant**, Introduction to Algorithms (Fall 2016, Spring 2017)
- **Outreach Chair**, Harvard MIT Math Tournament (2015 - 2016)
- **Class Assistant**, Art of Problem Solving (2014 - 2016)
- **Co-founder and Website Designer**, [pleasantonmathcircle.com](http://pleasantonmathcircle.com) (2011 - 2016)

## Skills

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

## Experience

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### Two Sigma | Software Engineering Intern

June 2017 – August 2017 | New York, NY

### Google | Software Engineering Intern

May 2016 – August 2016 | Mountain View, CA

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

### Lytmus | Software Engineering Intern

Jan 2016 | San Francisco, CA

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

### Akamai Technologies | Software Engineering Intern

June 2015 – Sept 2015 | Cambridge, MA

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

### Embedur Systems | Software Engineering Intern

Jan 2015 | Cambridge, MA

Migrated an application from MySQL to Apache Cassandra. Used C.

### Stanford Institutes of Medicine Research Program | Intern

Jun 2013 – Aug 2013 | Stanford, CA

Directed a three-person research project to computationally analyze prostate cancer biomarkers. Used C++ and Java.

## Projects

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### Notably | [notably.xyz](http://notably.xyz)

- Worked with classmates to create a collaborative note-taking application for MIT students. Used Node.js, AngularJS, Socket.io, MongoDB, JQuery.
- Won **Best Feature Set** in MIT Web Design Class (6.170).

### Fleek | [fleekon.me](http://fleekon.me)

- Worked with classmates to create a dynamic database of math and science problems. Used Python and JavaScript for data visualization and accumulation.
- Won **Fourth Place** in MIT Web Programming Competition (6.148).