



# Akshay Ravikumar

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## Education and Coursework

**Massachusetts Institute of Technology**, B.S. and M.Eng. in Computer Science

Class of 2018, GPA: 4.9/5.0

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)

## Experience

**Two Sigma Investments** – *Software Engineering Intern*

Summer 2017

Implemented an application to streamline the creation/deployment of realtime dashboards. Used Scala and JavaScript.

**MIT Spoken Language Systems Group** – *Researcher*

Spring 2017

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

**Google** – *Software Engineering Intern*

Summer 2016

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

**Lytmus** – *Software Engineering Intern*

January 2016

Wrote a REST API to integrate the application with a third-party vendor. Used Python and JavaScript.

**Akamai Technologies** – *Software Engineering Intern*

Summer 2015

- 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** – *Software Engineering Intern*

January 2015

Migrated an application from MySQL to Cassandra. Used C.

## Awards

**Putnam Math Competition**, Top 200 Scorer (2017), Top 500 Scorer (2014)

**MIT Web Development Class Final Project**, Best Feature Set (2015)

**Harvard Hackfest**, First Place in Media and Advertising (2014)

**USA Math Olympiad**, Two-time Qualifier (2013, 2014)

## Leadership

**Webmaster**, MIT Eta Kappa Nu (HKN) Honor Society (2017 – 2018)

**Teaching Assistant**, Design and Analysis of Algorithms (Fall 2017), Intro to Algorithms (Fall 2016, Spring 2017, Spring 2018)

**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~~  $\text{\LaTeX}$ , Git, Linux