

**Katie Siegel**  
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<b>EDUCATION</b>	<b>Master of Engineering</b> , Computer Science w/ conc. in Computer Systems Massachusetts Institute of Technology, expected June 2016	GPA: 5.0/5.0
	<b>Bachelor of Science</b> , Computer Science and Engineering Massachusetts Institute of Technology, expected June 2016	GPA: 5.0/5.0
<b>SKILLS</b>	Go, C, Java, Python (& Flask), Javascript (& Node.js), Objective C & Swift, Ruby on Rails, HTML/CSS	
<b>COURSEWORK</b>	Distributed Systems, Advanced Data Structures, Database Systems, Performance Engineering of Software Systems, Machine Learning, Computer Systems, Web Software Studio, Algorithms, Statistics	
<b>EXPERIENCE</b>	<b>MemSQL</b> - Intern	Summer 2015
	<b>Dropbox</b> - Intern, Mailbox Team - Prototyped and implemented features in Mailbox iOS app. - Hack Week "#SHIPIT" award winning team for Drops, write-only shared folders for content collection.	Summer 2014
	<b>Square</b> - Intern, Information Security team - Developed an internal tool that displays security data from Hadoop. - Contributed to open-sourced internationalization software project, Shuttle.	Summer 2013
<b>SELECTED PROJECTS &amp; RESEARCH</b>	<b>Zauberflote</b> - System that uses WebRTC and a centralized tracker system similar to the BitTorrent protocol to enable peer-to-peer content delivery.	
	<b>Replication in H-Store</b> - Research implementing synchronous, semi-synchronous, and asynchronous replication in H-Store, a research effort in the MIT Databases Lab.	
	<b>Memory allocator</b> - Custom memory allocator written in C.	
	<b>nunchuck.js</b> - Open-sourced library for real-time hardware data synchronization between mobile and desktop browsers. Demos include 2-player Mario Kart and n-player plane battle game with a mobile web controller interface. 2nd place winner at YCHacks.	
	<b>Kobal</b> - Chrome extension allowing publicly sharing comments on text on the web and tipping with Bitcoin. Winner of A16Zs Battle of the Hacks.	
	<b>EDUvote</b> - Turning Point Clicker replacement software; facilitates real-time student feedback to class questions using text messaging (Twilio API); implements student analytics, lesson plans, and a gradebook module won "first place" in 6.170 end-of-term competition.	
	<b>Instant messaging client/server</b> - Focus on concurrency and global consistency. Won "best overall" in 6.005 end-of-term competition.	
<b>TEACHING</b>	<b>6.170: Software Studio</b> Web software lab, taught using Node.js.	Fall 2014, 2015
	<b>6.670: iOS Game Design and Development</b>	Winter 2013
<b>LEADERSHIP</b>	<b>HackMIT</b> - Director HackMIT is MIT's largest hackathon (> 1000 attendees, > 60 sponsors)	2013-2014