

Katie Siegel
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EDUCATION	Master of Engineering , Computer Science w/ conc. in Computer Systems Massachusetts Institute of Technology, expected June 2016	GPA: 5.0/5.0
	Bachelor of Science , Computer Science and Engineering Massachusetts Institute of Technology, expected June 2016	GPA: 5.0/5.0
SKILLS	Go, C, Java, Python (& Flask), Javascript (& Node.js), Objective C & Swift, Ruby on Rails, HTML/CSS	
COURSEWORK	Distributed Systems, Advanced Data Structures, Database Systems, Performance Engineering of Software Systems, Machine Learning, Computer Systems, Web Software Studio, Algorithms, Statistics	
EXPERIENCE	MemSQL - Intern	Summer 2015
	Dropbox - 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
	Square - Intern, Information Security team - Developed an internal tool that displays security data from Hadoop. - Contributed to open-sourced internationalization software project, Shuttle.	Summer 2013
SELECTED PROJECTS & RESEARCH	Zauberflöte - System that uses WebRTC and a centralized tracker system similar to the BitTorrent protocol to enable peer-to-peer content delivery.	
	Replication in H-Store - Research implementing synchronous, semi-synchronous, and asynchronous replication in H-Store, a research effort in the MIT Databases Lab.	
	Memory allocator - Custom memory allocator written in C.	
	nunchuck.js - 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.	
	Kobal - Chrome extension allowing publicly sharing comments on text on the web and tipping with Bitcoin. Winner of A16Zs Battle of the Hacks.	
	EDUvote - 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.	
	Instant messaging client/server - Focus on concurrency and global consistency. Won "best overall" in 6.005 end-of-term competition.	
TEACHING	6.170: Software Studio Web software lab, taught using Node.js.	Fall 2014, 2015
	6.670: iOS Game Design and Development	Winter 2013
LEADERSHIP	HackMIT - Director HackMIT is MIT's largest hackathon (> 1000 attendees, > 60 sponsors)	2013-2014