Katie Siegel

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github.com/kathrynsiegel

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   Summer 2014
- Prototyped and implemented features in Mailbox iOS app.
- Hack Week "#SHIPIT" award winning team for Drops, write-only shared folders for content collection.

Square - Intern, Information Security team   Summer 2013
- Developed an internal tool that displays security data from Hadoop.
- Contributed to open-sourced internationalization software project, Shuttle.

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   Fall 2014, 2015
Web software lab, taught using Node.js.

6.670: iOS Game Design and Development   Winter 2013

LEADERSHIP

HackMIT - Director   2013-2014
HackMIT is MIT's largest hackathon (> 1000 attendees, > 60 sponsors)