

Ian Reynolds

idr@mit.edu | 612.281.9943 | idreyn.me

Education

Massachusetts Institute of Technology

Cambridge, MA (2013-2017, expected)

Course 6-2 (Electrical Engineering and Computer Science)

Relevant coursework includes discrete math, algorithms, software construction, AI, signals and systems, computation structures, circuits and electronics, constructive computer architecture, computer system engineering, electromagnetics, compiler design. GPA: 4.7/5.0

Work Experience

Software Engineering Intern, Khan Academy

Mountain View, CA (Summer 2016)

- Worked with the web frontend team on three internal and user-facing projects over the course of three months.
- Rebuilt large parts of KA's legacy computer programming platform using modern design, frameworks, and best practices.
- Developed a proof-of-concept static hosting scheme to reduce page load times by 85% in China.

SuperUROP, Computational Perception and Cognition Group at CSAIL

Cambridge, MA (2015-Present)

- Designing software and hardware for an assistive device leveraging human echolocation.
- Working with blind test subjects and a cross-disciplinary research team to coordinate trials of the device.

Developer, Evolv Technology

Waltham, MA (2015)

- Designed and implemented the operator interface for a next-generation full-body security scanner.
- Integrated data from optical and millimeter wave sensors to build 3D guest models with interactive threat detection.
- Used WebGL and Polymer to produce a scanner client application optimized for desktop and mobile performance.

Developer, Scratch Team at MIT

Cambridge, MA (2013-2014)

- Designed and implemented a Scratch Community Library platform using HTML5, Actionscript, and Django.
- Worked with the Scratch development team on every aspect of code life cycle, from storyboarding to bugfixes and QA.

Leadership Experience

Director of Academics, Amphibious Achievement

(2015-2017)

- Developed curriculum for an athletic/academic mentorship program based at MIT.
- Led classroom of ~50 Boston-area high school students each Sunday.
- Worked with program leadership to develop program goals and curriculum standards.

Founder, CDH₂O

(2012-2013)

- Created student group to campaign clean water access, a fundamental need that is unfulfilled for billions.
- In one week raised more than \$4,500 for charity:water, enough to fund a clean water project in sub-Saharan Africa.

Personal Projects

- **Realtime LED MBTA Map** — featured in the Boston Globe and *The Atlantic's* CityLab blog.
- **Sigmabox** — a full-featured graphing calculator replacement built in HTML5 and available on the App Store and Github.

Skills

- Highly proficient full stack web developer familiar with a wide variety of relevant tools and technologies.
- Comfortable in any language at any level of the stack given four weeks, caffeine, and Stack Overflow.
- Familiar with data analysis techniques and tools including MATLAB and NumPy/SciPy.
- Conversational in Mandarin Chinese.