

ABIGAIL KLEIN

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EDUCATION

Massachusetts Institute of Technology (MIT)

Candidate for Master of Engineering in Computer Science; GPA: 5.0/5.0

Bachelor of Science in Computer Science; GPA: 4.6/5.0

Cambridge, MA

Expected June 2015

June 2014

- Concentration: Human-Computer Interaction
- Master's Thesis: "Search Tools for Scaling Expert Code Review to the Global Classroom"
- Relevant Coursework: User Interface Design, Computer Graphics, Design and Analysis of Algorithms, Performance Engineering, Artificial Intelligence, Principles and Practices of Assistive Technologies, Entrepreneurship Project, Computer Vision, Evaluating Education

EXPERIENCE

User Interface Design Group; CSAIL, MIT

Researcher

Cambridge, MA

Oct. 2013–Present

- Designing search tools to allow teachers to give qualitative feedback beyond "correct" or "incorrect" to tens of thousands of students' code submissions.
- Building a search engine to increase efficiency of writing feedback to individual students.
- Developing techniques to cluster student code so teachers may powergrade multiple students' code at once.

Assistive Technologies; MIT

Student leader

Cambridge, MA

Feb. 2014–Present

- Mentoring students in an MIT undergraduate course in which teams design and build assistive software, hardware, or mechanical devices for an individual in the community living with a disability.
- Founding member of MIT's first assistive technology hackathon, a two-day event based upon the MIT course. Recruited five clients in the greater Boston area.

Introduction to Electrical Engineering and Computer Science; MIT

Teaching assistant to class of over 500 students

Cambridge, MA

Feb. 2014–Present

- Manage lab assistants. Lectured to over 100 MIT undergraduates at a review session.

Middle East Education Through Technology (MEET)

Curriculum developer

Jerusalem, Israel

May–July 2014

- Developed a 3-week curriculum to teach Israeli and Palestinian high-schoolers web programming and Django.

MIT International Science and Technology Initiative

Curriculum developer and instructor

Querétaro, Mexico

June–July 2013

- Established a new computer education class tailored to Mexican street children, independently developed curriculum, and taught class in Spanish.

The Server Labs

Software engineering intern

Madrid, Spain

June–Aug. 2012

- Created a user interface to facilitate clients setting up a cloud-based virtual environment.
- Presented project in Spanish before a group of cloud computing professionals.

Affective Computing; Media Lab, MIT

Undergraduate researcher

Cambridge, MA

June–Dec. 2011

- Introduced a user interface for CardioCam, a low-cost and non-contact technology that calculates heart rate and blood pressure using only webcam imagery.

SKILLS AND INTERESTS

- Django, WebDev Languages (HTML, CSS, Javascript, jQuery), Python, C++, Java, Matlab
- Group leader for MIT Varsity Track and Field pole vaulters
- Spanish ♦ Hebrew ♦ Pole vaulting ♦ Gymnastics ♦ Travel ♦ Music