

EDUCATION

Stanford University
PhD, Computer Science

September 2013 – present

Massachusetts Institute of Technology
MEng, Computer Science. GPA: 4.9/5.0
BS, Computer Science and Engineering. GPA: 5.0/5.0

September 2012 – June 2013

September 2008 – June 2012

RESEARCH

Stanford – HCI Group

- **Goal-Oriented Curriculum Generation** *Spring 2012 – Spring 2013*

Developing a service that helps students learn vocabulary while watching foreign-language videos. It does so with “smart subtitles”, which are transcripts annotated with information personalized to learners’ proficiency levels, to help them understand new vocabulary in the dialog.

MIT CSAIL – User Interface Design Group

- **Smart Subtitles for Foreign Language Learning** *Spring 2012 – Spring 2013*

Developing a service that helps students learn vocabulary while watching foreign-language videos. It does so with “smart subtitles”, which are transcripts annotated with information personalized to learners’ proficiency levels, to help them understand new vocabulary in the dialog.

- **Providing Context to Software Translators by Displaying Screenshots** *Fall 2011*

Developed a software internationalization tool which associates the translatable strings in an application with screenshots in which they appear (using OCR). By presenting a screenshot highlighting how the string is being used, this additional context allows translators to make more accurate translations.

MIT Media Lab – Affective Computing Group

Spring 2009 – Spring 2011

- Worked on a system to conduct mock interviews and highlight areas for improvement. I developed the audio-related parts of the backend code - for example, capturing the audio, detecting pauses, segmenting responses, and transcribing the speech. I also prototyped various ways to visualize the speech transcript.
- Created a library to allow scripts for the Praat acoustic analysis application to be programatically used with real-time, continuous streams of speech.
- Trained a classifier to determine mental states based on displacements of facial features, and used it in a demo application which performed real-time mental state classification.

WORK
EXPERIENCE

Google Research – Software Engineering Intern

Summer 2013

Working with the Input Methods Research team on mobile text entry.

Google – Software Engineering Intern

Summer 2012

Designed and implemented a system to detect and provide definitions for specialized vocabulary in books, by extracting them from the book text.

Google – Software Engineering Intern

Summer 2011

Developed a system that predicts how helpful a given user review on the Android Marketplace is. In user tests I conducted in several languages, the reviews selected by this algorithm were strongly preferred over chronological ordering. It has been deployed and is currently being used to display reviews on Google Play.

Microsoft Corporation – Software Development Engineer Intern

Summer 2010

Implemented the Intellisense API, refactoring options, and Visual Studio code completion plugin for a programming language under development by the Technical Computing group.

Google Summer of Code – FFmpeg (Video transcoding library)

Summer 2009

Developed a playlist and concatenation API, parsers for several playlist formats, and a transitional interface for existing applications, for the FFmpeg video transcoding library.

OPEN-SOURCE
PROJECTS

UNetbootin (LiveUSB creator)

January 2007 – present

Created UNetbootin, a cross-platform utility to create bootable USB flash drives or perform network installations for a wide variety (50+) of Linux distributions. This work has been accepted into the official package repositories for Debian, Ubuntu, Fedora, openSUSE, Gentoo, and other major distributions.

20 million downloads, <http://unetbootin.sourceforge.net/>

Wubi (Windows-based Ubuntu Installer)

November 2006 – August 2007

Designed and implemented the early versions of the Windows-based Ubuntu Installer, which allows Windows users to safely install Ubuntu Linux without repartitioning their hard drives. Formerly an independent project.

TEACHING	<p>Teaching Assistant – Natural Language Processing (6.863) at MIT <i>Fall 2012</i> Helped write assignments, managed the course infrastructure, and graded assignments. I developed new tools to make the assignment grading process faster, semi-automatic, and paper-free.</p> <p>Instructor – Introduction to C++ IAP (6.096) at MIT <i>January 2011</i> Gave lectures, helped write and grade assignments, and helped students in lab for a student-run, for-credit introductory C++ course. The teaching materials I produced have been made available on OpenCourseWare: http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-096-introduction-to-c-january-iap-2011</p> <p>Software Director – Maslab Autonomous Robotics Competition at MIT <i>January 2011</i> As the software director for the competition, I gave the software-related lectures, managed the software for the competition, and helped students in lab.</p>
PUBLICATIONS	<p>Geza Kovacs and Robert C. Miller. “Smart Subtitles for Vocabulary Learning.” ACM annual conference on Human Factors in Computing Systems (CHI) 2013, Full Paper (to appear).</p> <p>Geza Kovacs and Robert C. Miller. “Foreign Manga Reader: Learn Grammar and Pronunciation while Reading Comics.” ACM Symposium on User Interface Software and Technology (UIST) 2013, Demo.</p> <p>Geza Kovacs. “Smart Subtitles for Language Learning.” ACM annual conference on Human Factors in Computing Systems (CHI) 2013, Extended Abstracts.</p> <p>Geza Kovacs. “ScreenMatch: providing context to software translators by displaying screenshots.” ACM annual conference on Human Factors in Computing Systems (CHI) 2012, Extended Abstracts.</p>
AWARDS	<p>National Defense Science and Engineering Graduate Fellowship, 2013-2016</p> <p>NSF Graduate Research Fellowship (declined in favor of NDSEG), 2013</p> <p>1st place, Most Useful, ACM UIST (User Interface Software and Technology) Student Innovation Contest 2012</p> <p>1st place, ACM CHI (Conference on Human Factors in Computing Systems) Student Research Competition 2012</p> <p>1st place, MIT Maslab Autonomous Robotics Competition 2010</p> <p>Updated on February 6, 2014. Latest version is at http://gkovacs.github.com/resume.pdf</p>