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**EDUCATION** 

## **Massachusetts Institute of Technology**

Master of Engineering in Computer Science Bachelors of Science in Computer Science and Engineering September 2012 – expected June 2013 September 2008 – June 2012

• Overall GPA: 5.0/5.0

RESEARCH

## MIT CSAIL - User Interface Design Group

- Smart Subtitles for Foreign Language Learning (MEng thesis project) Spring 2012 present 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.

  Presented at the CHI 2012 Student Research Competition, where it won first place see Publications.

### 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 - 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, this work is now part of Ubuntu.

Ships on the official Ubuntu CD, http://wubi.sourceforge.net/

#### TEACHING

# Teaching Assistant – Natural Language Processing (6.863) at MIT

Fall 2012

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.

#### Instructor – Introduction to C++ IAP (6.096) at MIT

January 2011

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-jap-2011

#### Software Director – Maslab Autonomous Robotics Competition at MIT

January 2011

As the software director for the competition, I gave the software-related lectures, managed the software for the competition, and helped students in lab.

**PUBLICATIONS** 

Kovacs, Geza. "ScreenMatch: providing context to software translators by displaying screenshots." Proceedings of the 2012 ACM annual conference on Human Factors in Computing Systems, Extended Abstracts. http://groups.csail.mit.edu/uid/other-pubs/chi2012-screenshots-for-translation-context.pdf

DISTINCTIONS

1<sup>st</sup> place, Most Useful, ACM UIST 2012 (User Interface Software and Technology) Student Innovation Contest 1<sup>st</sup> place, ACM CHI 2012 (Conference on Human Factors in Computing Systems) Student Research Competition 1<sup>st</sup> place, Maslab 2010 (MIT's autonomous robotics competition)

Updated on December 3, 2012. Latest version is at http://gkovacs.github.com/resume.pdf