Geza Kovacs

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Education

Massachusetts Institute of Technology, Cambridge, MA
Bachelor's Degree in Computer Science and Engineering *September 2008 – June 2012*

- Overall GPA: 5.0/5.0

Work Experience

Google – Software Engineering Intern *June – August 2011*
Developed a model which would predict how helpful a given user review on the Android Marketplace is. In user tests I conducted in several languages, the review ordering produced by this algorithm was preferred over the existing one, and is thus currently being used on the site.

Microsoft Corporation – Software Development Engineer Intern *June – August 2010*
Designed and implemented the Intellisense API, refactoring options, and Visual Studio code completion plugin for a new programming language which is under development by the Technical Computing group.

Research

MIT CSAIL – User Interface Design Group *September 2011 – current*
Developing 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 will allow translators to make more accurate translations.

MIT Media Lab – Affective Computing Group *February – December 2009*
Trained a Bayesian network classifier to determine mental states from a still image or from a video stream based on displacements of facial features, and used it in a demo application which performed mental state classification in real-time from a webcam source. Also created a library to allow scripts for the Praat acoustic analysis application to be programatically used with real-time, continuous streams of speech.

MIT CSAIL – T-Party Project *September – December 2008*
Implemented applications and user interfaces which seamlessly accumulate and present various forms of remotely-stored data on mobile Linux devices. The applications auto-configure and transparently utilize nearby networked peripherals such as external displays and audio devices.

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.
15 million downloads, http://unetbootin.sourceforge.net/

FFmpeg (Video transcoding library) *May – August 2009*
Designed and implemented a playlist and concatenation API, parsers for several playlist formats, and a transitional interface for existing applications, for the FFmpeg audio and video transcoder and library. This work was done as part of Google's Summer of Code program.

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

Co-Instructor for Introduction to C++ IAP Course at MIT *January 2011*
Taught an introductory C++ programming course for MIT students, giving lectures, reviewing assignments, and assisting students with software labs. Also helped archive the course on MIT's OpenCourseWare site:
http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-096-introduction-to-c-january-iap-2011

Distinctions

1st place, Maslab 2010 (an autonomous robotics competition at MIT).
Member of the Tau Beta Pi (TBP) and Eta Kappa Nu (HKN) Engineering Honor Societies.