

Vijay Rudraraju

Current Address

789 61st Street, Apt. 4
Oakland, CA 94609
veejayee@gmail.com

Permanent Address

170 Oak Creek Blvd.
Scotts Valley, CA 95066

Education

McGill University, Montreal, M.A., Music Technology, 2011
University of California, Berkeley, B.S., Engineering Physics, 2006

Languages/Platforms

C/C++, Java, Javascript/jQuery, HTML5/CSS, CouchDB, Obj-C (iOS), Pure Data, Max/MSP, Python, Lua, Lisp, Perl, Matlab

Coursework

Programming Paradigms & Data Structures (Berkeley)
Design and Analysis of Advanced Algorithms (Berkeley)
User Interface Design (Berkeley)
Music Information Acquisition, Preservation, and Retrieval (McGill)
Digital Audio Signal Processing (McGill)
Computational Modeling of Musical Acoustic Systems (McGill)
Human Computer Interaction - Gestural Control of Sound Synthesis (McGill)

Work Experience

DSP/UI Engineer

February 2012 - Present

Retronyms, San Francisco, CA

Designing/implementing vector instruction-based DSP algorithms and engineering devices for the Tabletop iPad modular audio environment and related software for iOS and Android.

Programmer

April 2011 - November 2011

Metalab at Société des Arts Technologiques (<https://github.com/sat-metalab>), Montreal, QC

Worked on video streaming system, built audio spatialization plugin for music production environments.

Researcher

September 2010 - November 2011

Input Devices and Music Interaction Lab (<http://www.idmil.org>) at McGill University, Montreal, QC

Contributed to Libmapper project, a UDP-based protocol for representing input and output signals on a network and allowing signal mappings to be dynamically created between them.

Summer of Code Developer

June 2009 - August 2009

Google Inc., Mountain View, CA

Experimented with interactive musical media using the Native Client project. Specifically, explored game-like interfaces for controlling audio synthesis.

Media Technology Research Intern

July 2009 - August 2009

Sony Corp. (Gracenote), Emeryville, CA

Built a prototype of a collaborative editing tool for user submitted videos of live musical performances.

Interaction Design Engineer

September 2006 - August 2008

SeeqPod Inc., Emeryville, CA

Designed and implemented interfaces for music search and playlist creation. Received Illustrator mockups from a designer and implemented features from scratch.

Student Researcher

September 2006 - January 2007

MILLEE (<http://www.cs.cmu.edu/~mattkam/>), University of California, Berkeley, CA

Designed and implemented mobile games towards advancing children's language literacy, conducted user studies in rural India with young students.

President

Summer 2005

Andres Castro Arms Housing Cooperative, Berkeley, CA

Charged with mediating house meetings, maintaining the general-well being of a 50+ member house, and resolving conflicts between managers (House, Maintenance, Social) and within the house as a whole.

Research Intern

June 2004 - August 2004

NASA Ames Research Center, Mountain View, CA

Designed and implemented segments of computer simulations used to investigate the suitability of various ionic solutions within a new technique to sequence DNA for members of the Computational Molecular Nanotechnology Group.

Likes

To play violin, ukulele, basketball, snowboard, and speak mediocre french