

Kristi Tsukida

Engineer, Thinker, Creator

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Programming Skills

Python, MATLAB, Bash, C/C++, Objective-C, Javascript, HTML, CSS

Technologies

iOS/iPhone, Django, JQuery, Git/SVN, Linux/Mac/Windows, CUDA GPU programming, microcontrollers, Photoshop/Illustrator, audio & video processing, machine learning, statistics

Experience

Senior Developer, Twistle, Inc. (2012-2013)

Developed messaging app aimed at improving healthcare by providing a delightful conversational experience for doctors and patients. (Objective-C iPhone mobile app, Python/Django/MySQL backend, Backbone/AJAX frontend)

Machine Learning Researcher, Intelligent Design Lab/Maya Gupta, University of Washington (2010-2011)

Analyzed scoring and ranking based on paired comparison data using maximum likelihood and convex optimization (Matlab). Chip-seq tag location algorithm for inferring precise protein binding locations in DNA (Python). Linux cluster sysadmin.

Engineer, Intellisys Corp. (2007-2009)

Trained intelligent robots using a neural parallel-processing algorithm. Integrated voice command recognition, and real-time video and sensor processing for an autonomous embodied robot. (C, C++, CUDA, OpenCV)

Patent US20110119057: Neural segmentation of an input signal and applications thereof

Engineer, California Institute for Telecommunication and Information Technology (Calit2) (2006-2007)

Built high resolution multi-spectral art scanner system and user interface.

Developed hardware and software enabling wireless control and sensory feedback for a

custom robotic platform (microcontrollers, motor control, 802.11 wireless, Bluetooth, webcam)

Student Programmer, San Diego Supercomputer Center (SDSC)/Protein Data Bank (PDB) (2006-2007)

Automated management and monitoring of a distributed network of servers

School

Master of Science, Electrical Engineering (Machine Learning)

University of Washington

GPA: 3.8

Bachelor of Science, Electrical Engineering

University of California, San Diego

Regents Scholar, Provost's Honors, Major GPA: 3.8

Projects

Taikonome.com

an online taiko metronome written in ActionScript/Javascript

gotNihongo.com

easily translate English queries to Japanese and search at the same time

Sniper (mrglmrgl.com)

a code snippet blog-like engine using Django/JQuery

Command-Py (kristi.github.io/command_py/)

an experimental Python documentation search tool inspired by Command-T

Just for Fun

I have 1.9k points on StackOverflow

I've contributed to multiple open source projects

Performed Taiko (Japanese drumming) for 2009 World Baseball Classic (Naruwan Taiko) and 2011

North American Taiko Conference's Taiko Jam concert (Inochi Taiko)

I have successfully thrown and caught a boomerang

More about me and my projects

<http://kristi.github.io/>

