Skills

Develop

C/C++, MATLAB, Python, Erlang, Machine Learning, Machine Vision, Data Analysis, Test Driven Development, Distributed Computing, CQL UX, Rapid Prototyping, User Studies, Storyboarding Neuroscientist, First Responder, Teller of Puns

Design Define

Professional Experience

Jan 2013

Backend Engineer @ Whisper App

- Present Led intro
 - Led introduction and maintenance of the erlang and elixir testing frameworks into whisper's build system.
 - Refactored and maintained tests for core user logic
 - Implemented data migrations from MySQL to Cassandra
 - Implemented core data models and functionality
 - Participated in code reviews and styleguide generation

Aug 2013 - Jan 2013 Freelance Software Developer @ Elance.com

- Implemented job candidate- job matching algorithm and employee eligibility scoring
- Software architecture consultant and python dev for email compliance and deliverability startup

Summer 2012

Machine Vision Intern @ JPL, Machine Learning group

- Designed and implemented a background segmentation algorithm for the DARPA Mind's Eye project
- Dropped false positives from dynamic backgrounds by a factor of 3

Oct 2011 - Jul 2012 Neural Interface Developer @ Caltech

- Performed electrode implantation in rodent brain surgeries
- Ran and debugged a legacy spike-sorting algorithm on electrophysiological data (Matlab)

May 2010 `
- Aug 2011

Engineer and Chemist @ Glucosentient, Lu-Lab UIUC

- Optimized a system for combining isothermal DNA amplification with existing DNAzyme sensors.
- "A highly selective lead sensor based on a classic lead DNAzyme". ChemComm. 46 (22) 3896-3898

Education

Fall 2013

MS-HCI Candidate, Interactive Computing
@ Georgia Institute of Technology

2009-2013

BS in Computational and Neural Science, CS minor @ California Institute of Technology



Kimberly Furuya

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