Kurt R. Rudolph

krudolph9@gmail.com • (708) 620-7839

SUMMARY

A passionate engineer who loves finding solutions to problems. Hopes success in his career will enable him to continually face new and unique challenges.

EXPERIENCE

Software Engineer & Founder   Dec 2010 - Present
Rudy Computing,
> Contracted as full stack developer for implementation of LAMP based web app SafelyFiled.com
> Configured Moodle based collaboration resources for the Illinois Sustainable Technology Center.
> Implemented Java based mail monitoring software for Bold Web Services.
> Wrote shopsense-ruby ruby gem.
> Built custom project management platform where machine learning is applied to customize user interface.
> Built single page administration panel using backone.js.
> Building off the Linux based RaspberryPi board and working closely with data acquisition hardware designers, developed software to aggregate and analyse the data of the sensory devices for combustion emissions testing devices. Contracted by the University of Illinois, Department of Environmental Engineering.
> Built Amazon Marketplace Web Service reporting application building off Rails.

Mentor   January 2013 - August 2013
Bloc.io, an online educational institute
> Taught programming fundamentals, specifically those surrounding the Ruby on Rails web framework.

COMMUNITY SERVICE

Director of Technology   January 2011 - Present
Muldowney Foundation, charitable organization helping those with brain injuries
> Set up google apps and verious other cloud based collaboration tools.
> Built MuldowneyFoundation.org.
> Lead student project team working toward rehabilitation technology applications utilizing 3D cameras.

COMPUTER SKILLS

Programming Languages:	Ruby, C, CoffeeScript, C++, Javascript, PHP, Bash, OCaml, MIPS Assembly, Python, Matlab, Java.
Markup Languages:	HTML, LaTeX, Markdown, Haml, YAML, JSON.
Web Frameworks & Common WebAPIs:	Ruby on Rails, Sinatra, Apache, NodeJS, jQuery, REST, Ajax, Backbone.js, Twitter-Bootstrap.
Other Tools & Notable Proficiencies:	CUDA, OpenGL, Git, Subversion, Vim, Unix-Screen, SSH, able to administrate most Unix & Linux distributions, navigate Mac OS *entirely* via keyboard, SQL (MySQL & PostgreSQL), DynamoDB.

EXTRA-CURRICULAR ACTIVITIES

Completion of VSCSE Proven Algorithmic Techniques for Many-core Processors.
Active participant of StackOverflow.
Personal website, KurtRudolph.net (please see site more extra-curricular activities).

EDUCATION

Computer Science, College of Engineering
University of Illinois at Urbana-Champaign, August 2012

Database Systems	Graph Theory
Data Mining	Linear Algebra
Interactive Computer Graphics	Differential Equations
Programming Languages and Compilers	Probability Theory
Operating Systems Design	Numerical Methods I & II
Senior Project I & II	Computational Theroy
Undergraduate Research Laboratory	Fundamental Algorithms