

Kurt R. Rudolph

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EDUCATION	University of Illinois <i>Bachelor of Science in Computer Science</i> <i>Focus: Database Systems & Mathematics</i>	Urbana-Champaign, IL August 2012 GPA: 2.56/4.00
WORK EXPERIENCE	Rudy Computing <i>Software Engineer & Founder</i>	August 2012 - Present <ul style="list-style-type: none">Contracted as full stack developer for implementation of LAMP based web app SafelyFiled.com for the duration of four months.Integrated Moodle based collaboration resources into the Illinois Sustainable Technology Center server platform.Implemented Java based mail monitoring/alert software for Bold Web Services.Wrote shopsense-ruby gem.Built single page administration panel using backbone.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.Wrote microAeth-AE51-ruby gem.Built Amazon Marketplace Web Service reporting application building off Rails.
	Bloc.io <i>Mentor</i>	January 2013 - August 2013 <ul style="list-style-type: none">Taught programming fundamentals, specifically those surrounding the Ruby on Rails web framework.
PROJECT EXPERIENCE		<ul style="list-style-type: none">CudaMP - A Message Passing Interface (MPI)-like protocol for Graphics Processing Units (GPUs) developed by my senior project team. The video is the application of the project performing the rasterization of the 3d-view OpenKinect project yielding slightly faster results than OpenGL.Alternative High Performance Benchmarks - A project featured in the PGAS section of 2011 Supper Computing conference. The project explores PGAS languages for alternative HPC benchmarks, specifically a UPC implementation of the Graph 500.
LEADERSHIP EXPERIENCE	Muldowney Foundation <i>Director of Technology</i>	January 2011 - Present <ul style="list-style-type: none">Set up google apps and various other cloud based collaboration tools.Built MuldowneyFoundation.org.Lead student project team working toward rehabilitation technology applications utilizing 3D cameras.
COMPUTER SKILLS	<i>Programming Languages:</i> <i>Markup Languages:</i> <i>Web Frameworks & Common WebAPIs:</i> <i>Other Tools & Notable Proficiencies:</i>	Ruby, C, CoffeeScript, C++, Javascript, PHP, Bash, OCaml, MIPS Assembly, Python, Matlab, Java. HTML, \LaTeX , Markdown, Haml, YAML, JSON. Ruby on Rails, Sinatra, Apache, jQuery, REST, Ajax, Backbone.js, Twitter-Bootstrap. CUDA, OpenGL, Git, Subversion, Vim, Unix-Screen, SSH, able to administrate most Unix & Linux distributions, navigate Mac OS <i>entirely</i> via keyboard, SQL (MySQL & PostgreSQL), DynamoDB.
EXTRA-CURRICULAR ACTIVITIES		<ul style="list-style-type: none">Completion of VSCSE Proven Algorithmic Techniques for Many-core Processors.Active participant of StackOverflow.Awarded 1st prize at the 2013 LincolnLabs Chicago Hackathon for Chi-Text.Personal website, KurtRudolph.net (please see site more extra-curricular activities).