

# Kurt R. Rudolph

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EDUCATION	<b>University of Illinois</b> <i>Bachelor of Science in Computer Science</i> <i>Focus: Database Systems &amp; Mathematics</i>	Urbana-Champaign, IL August 2012 GPA: 2.56/4.00
WORK EXPERIENCE	<b>Rudy Computing</b> <i>Software Engineer &amp; Founder</i>	August 2012 - Present <ul style="list-style-type: none"><li>Contracted as full stack developer for implementation of LAMP based web app <a href="#">SafelyFiled.com</a> for the duration of four months.</li><li>Integrated <a href="#">Moodle</a> based collaboration resources into the <a href="#">Illinois Sustainable Technology Center</a> server platform.</li><li>Implemented Java based mail monitoring/alert software for <a href="#">Bold Web Services</a>.</li><li>Wrote <a href="#">shopsense-ruby</a> gem.</li><li>Built single page <a href="#">administration panel</a> using backbone.js.</li><li>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 <a href="#">combustion emissions testing devices</a>. Contracted by the University of Illinois, Department of Environmental Engineering.</li><li>Wrote <a href="#">microAeth-AE51-ruby</a> gem.</li><li>Built Amazon Marketplace Web Service reporting application building off Rails.</li></ul>
	<b>Bloc.io</b> <i>Mentor</i>	January 2013 - August 2013 <ul style="list-style-type: none"><li>Taught programming fundamentals, specifically those surrounding the Ruby on Rails web framework.</li></ul>
PROJECT EXPERIENCE		<ul style="list-style-type: none"><li><a href="#">CudaMP</a> - 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.</li><li><a href="#">Alternative High Performance Benchmarks</a> - 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.</li></ul>
LEADERSHIP EXPERIENCE	<b>Muldowney Foundation</b> <i>Director of Technology</i>	January 2011 - Present <ul style="list-style-type: none"><li>Set up google apps and various other cloud based collaboration tools.</li><li>Built <a href="#">MuldowneyFoundation.org</a>.</li><li>Lead student project team working toward rehabilitation technology applications utilizing 3D cameras.</li></ul>
COMPUTER SKILLS	<i>Programming Languages:</i> <i>Markup Languages:</i> <i>Web Frameworks &amp; Common WebAPIs:</i> <i>Other Tools &amp; 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"><li>Completion of <a href="#">VSCSE Proven Algorithmic Techniques for Many-core Processors</a>.</li><li>Active participant of <a href="#">StackOverflow</a>.</li><li>Winner of the <a href="#">2013 LincolnLabs Chicago Hackathon</a>.</li><li>Personal website, <a href="#">KurtRudolph.net</a> (please see site more extra-curricular activities).</li></ul>