

Kurt R. Rudolph

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| 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 | <i>Software Engineer & Founder</i> Rudy Computing , Contracted as full stack developer for implementation of LAMP based web app Safe-lyFiled.com 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. | Aug 2012 - Present | | | | | | | | | | | | | | |
| | <i>Mentor</i> Bloc.io , an online educational institute Taught programming fundamentals, specifically those surrounding the Ruby on Rails web framework. | January 2013 - August 2013 | | | | | | | | | | | | | | |
| COMMUNITY SERVICE | <i>Director of Technology</i> 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. | January 2011 - Present | | | | | | | | | | | | | | |
| COMPUTER SKILLS | <i>Programming Languages:</i> Ruby, C, CoffeeScript, C++, Javascript, PHP, Bash, OCaml, MIPS Assembly, Python, Matlab, Java. <i>Markup Languages:</i> HTML, \LaTeX , Markdown, Haml, YAML, JSON. <i>Web Frameworks & Common WebAPIs:</i> Ruby on Rails, Sinatra, Apache, jQuery, REST, Ajax, Backbone.js, Twitter-Bootstrap. <i>Other Tools & Notable Proficiencies:</i> 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 | 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 | <i>Computer Science</i> , College of Engineering University of Illinois at Urbana-Champaign, August 2012 <table><tr><td>Database Systems</td><td>Graph Theory</td></tr><tr><td>Data Mining</td><td>Linear Algebra</td></tr><tr><td>Interactive Computer Graphics</td><td>Differential Equations</td></tr><tr><td>Programming Languages and Compilers</td><td>Probability Theory</td></tr><tr><td>Operating Systems Design</td><td>Numerical Methods I & II</td></tr><tr><td>Senior Project I & II</td><td>Computational Theroy</td></tr><tr><td>Undergraduate Research Laboratory</td><td>Fundamental Algorithms</td></tr></table> | | 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 |
| 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 | | | | | | | | | | | | | | | |