# Kurt R. Rudolph

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**SUMMARY**

A passionate engineer who loves finding solutions to problems. Currently pursuing entrepreneurial aspirations building out Rudy Industries. Hopes success in his career will enable him to continually face new and unique challenges.

**EXPERIENCE**

*Software Engineer & Founder* — Dec 2010 - Present
**Rudy Industries Inc**,

- Founded during completion of undergrad to market computational services.
- Actively manage all financial and logistical aspects of the company.
- Implemented administration panel and identified security vulnerabilities for 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 jQueryMobile-Rails and shopsense-ruby ruby gems.
- Building out custom project management platform where machine learning is applied to customize user interface.

*Mentor* — January 2013 - Present
**Bloc.io**, an online educational institute

- Teach 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**

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| *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 (most experienced with MacOS, FreeBSD, and Ubuntu), navigate Mac OS *entirely* via keyboard, SQL (largely used MySQL), 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

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| Database Systems (CS411) | Graph Theory (Math412) |
| Data Mining (CS412) | Linear Algebra (Math415) |
| Interactive Computer Graphics (CS418) | Differential Equations (Math441) |
| Programming Languages and Compilers (CS421) | Probability Theory (Math461) |
| Operating Systems Design (CS423) | Numerical Methods I & II (CS357 & CS457) |
| Senior Project I & II (CS492 & CS493) | Computational Theory (CS373) |
| Undergraduate Research Laboratory (CS498url) | Fundamental Algorithms (CS473) |