

# W. Cannon Matthews III

cannon@cannonmatthews.com • 337.962.0644  
5305 S. Ellis Ave. Unit 3N • Chicago, IL 60615

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## Education and Honors

### University of Chicago, Chicago, IL

*September 2012–June 2016 (expected)*

- Dual S.B. in Computer Science and Mathematics, expected June 2016.
- Completed coursework in the Computer Science and Mathematics departments including: Discrete Math, Algorithms, Complexity Theory, Computer Architecture, Networks, Operating Systems, Scientific Visualization, Abstract Algebra and Real Analysis.
- 3.808 overall GPA. Dean's List: 2012–13, 2013–14, 2014–15 academic years.

### Illinois Technology Association – 1<sup>st</sup> place – 2014 Tech Challenge Finals

*November 7, 2014*

### Lafayette High School, Lafayette, LA – 4.0 GPA Gifted Curriculum

*Graduated May 2012*

## Relevant Professional Experience

### Google, Inc. — Software Engineering Intern

*June 2015–September 2015*

- Improved system for ranking points of interest on Google Maps using machine trained models based on location categories. Contributed to a production release of the ranker.

### University of Chicago Computer Science Instructional Laboratories (CSIL)

*February 2013–Present*

(<http://csil.cs.uchicago.edu>)

- Oversee a lab of 52 OSX and 40 Linux workstations and additional servers on an ongoing basis.
- Led the overhaul of CSIL's server platform in a migration from Apple OSX systems to virtualized Linux servers, including structural redevelopment to facilitate the addition of services provided to lab users (*Summer 2013*).
- Currently in charge of system monitoring and collection of usage statistics on the CSIL machines, using custom-built solutions as well as off-the-shelf tools including Nagios, Cacti, Rsyslog and others.

### Louisiana Immersive Technologies Enterprise, Lafayette, LA (LITE)

*June 2009–September 2012*

(*LITE is a 3-D visualization resource center focused on economic development in Louisiana: <http://lite3d.com>*)

- Designed, implemented and maintained a database-backed web application that was used in a production environment to track employee hours. Developed an extensive knowledge of Ruby and the Ruby on Rails framework, as well as relational databases, particularly MySQL.
- Provided basic Linux Systems Administration and Helpdesk Support as well as installation, configuration and management of in-house and third-party software and hardware, including virtualized infrastructure.

## Technical Skills

- Skilled in a variety of areas covering both software development and systems administration.
- Proficient with multiple programming and scripting languages including C, C++, Python, Bash, Ruby & SQL in addition to markup languages such as HTML and  $\text{\LaTeX}$ .
- Extensive experience with Linux administration in both production and non-production environments, across several distributions, including a working knowledge of the Ansible configuration management system.
- Thorough knowledge and experience with virtual machines and hypervisors, using VMware, KVM, and Xen.

[www.CannonMatthews.com](http://www.CannonMatthews.com) • [LinkedIn.com/in/cannonmatthews](https://www.linkedin.com/in/cannonmatthews)  
[GitHub.com/loosecannon93](https://github.com/loosecannon93) • [StackOverflow.com/users/427447/loosecannon](https://stackoverflow.com/users/427447/loosecannon)

– References Available Upon Request –