

## EDUCATION

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- **University of Chicago** Chicago, IL  
*B.S. in Mathematics* Sep. 2013 – Mar. 2017

## EXPERIENCE

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- **Twitter** San Francisco, CA  
*Software Engineer, Core Systems Libraries* Sep. 2017 – Oct. 2018
  - Helped migrate the HTTP Cookie codec of Finagle, Twitter's Remote Procedure Call system, from Netty 3 to Netty 4, allowing use of a more modern I/O API.
  - Wrote a server-side rate limiter for services running on bare metal, resulting in less frequent overload for services not using containerization.
  - Provided internal and OSS support for Finagle users.
- **Twitter** San Francisco, CA  
*Software Engineer Intern, Core Systems Libraries* Jun. 2016 – Sep. 2016
  - Developed a client-side admission control system to detect when server clusters are overloaded and back off from sending requests, resulting in Twitter's services being more resilient to traffic spikes.
- **Google Summer of Code** Chicago, IL  
*Student Participant* Jun. 2015 – Sep. 2015
  - Wrote three major features for Bundler 2.0, a dependency manager for Ruby projects.
  - Built a user friendly file-based command configuration system to replace frail command line configuration code.
  - Increased encapsulation by changing the default system-wide dependency installation path to be local.
  - Implemented a system-wide cache for said dependencies to eliminate redundant installations and increase performance.
- **UChicago Masters Program in Computer Science** Chicago, IL  
*Web Intern* Jun. 2014 – Sep. 2015
  - Developed and launched a Rails application which collects and organizes advisors' project proposals, students' applications, and advisors' evaluations of students.
  - Developed and launched another Rails application which lets students request and enroll in courses.
  - Eliminated the need for the program staff to manually manage and collect applications, course requests, and schedules.

## PROGRAMMING SKILLS

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- **Programming Languages:** Scala, Ruby, Python, C, C++, Javascript   **Other Languages:** HTML, CSS, SQL, Bash
- **Tools & Technologies:** Unix, Git, PostgreSQL, SQLite, Subversion   **Frameworks:** Rails, Jekyll, jQuery

## TECHNICAL ACTIVITIES

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- Prepared undergraduate and graduate students for software engineering interviews via group whiteboarding sessions at UChicago's Tech Interview Workshop. (Sep. 2016 – Mar. 2017.)
- Served as a tutor for UChicago's Computer Science Instructional Laboratory. Explained programming techniques in C and Racket to students in introductory computer science courses and assisted students and visitors with printers, projectors, and Ubuntu and Mac computers. (Feb. 2015 – Mar. 2017.)
- Trained for and competed in the International Collegiate Programming Competition qualifying round at the University of Chicago with two teammates (Mar. 2015 – Jun. 2015.)
- Actively participated in hack@uchicago by helping students with coding projects at weekly "hack nights" (Sep. 2013 – Apr. 2015.)
- Collaborated with software engineers on Project Euler problems at weekly Meetups (Jun. 2012 – Sep. 2013.)
- Solved 89 Project Euler problems since 2012.