Stefan Lance

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EDUCATION

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

EXPERIENCE

- **Twitter** — San Francisco, CA
  Software Engineer — *Sep. 2017 – Present*
  - Making the core libraries that power Twitter's distributed infrastructure more efficient and resilient.

- **UChicago Computer Science Instructional Laboratory** — Chicago, IL
  Tutor — *Feb. 2015 – Mar. 2017*
  - Explained functional and imperative programming techniques in C and Racket to undergraduate students in introductory computer science courses.
  - Assisted students and visitors with lab equipment (Ubuntu and Mac computers; printers; and projectors).

- **Twitter** — San Francisco, CA
  Software Engineer Intern — *Jun. 2016 – Sep. 2016*
  - Wrote open source code for Finagle, Twitter's asynchronous Remote Procedure Call system.
  - Developed a client-side admission control system to detect when server clusters are overloaded and back off from sending requests, with the goal of making Twitter's services 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

- **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

- Prepared undergraduate and graduate students for software engineering interviews via group whiteboarding sessions at UChicago's Tech Interview Workshop from Sep. 2016 until Mar. 2017.

- Trained for and competed in the International Collegiate Programming Competition qualifying round at the University of Chicago with two teammates in the spring of 2015.

- Actively participated in hack@uchicago by helping students with coding projects at weekly "hack nights" from Sep. 2013 until Apr. 2015.

- Collaborated with software engineers on Project Euler problems at weekly meetups from Jun. 2012 until Sep. 2013.

- Solved 85 Project Euler problems since 2012.