

# Luke Peeler

peeler.luke@gmail.com ♦ (317) 721-2811  
3125 W Fullerton Ave, Apt 303 ♦ Chicago, IL 60647  
🌐 <http://lpeeler.com>

## EXPERIENCE

---

### **PEAK6 Investments, L.P.**

*Software Engineer*

*Chicago, IL*

Jul. 2014–Present

- Designed and developed support automation tool to facilitate service provisioning and monitoring
- Enhanced trading execution system through refactor of existing execution strategies and implementation of new strategies
- Augmented risk-management system with new risk checks at multiple levels of trading execution stack

### **The MathWorks, Inc.**

*Software Development Intern*

*Natick, MA*

Jun. 2013–Sep. 2013

- Refactored trie-based data dictionary builder from 20-year-old MATLAB code into Java
- Developed high-level conceptual design for dictionary builder to maximize modularity and long-term maintainability, focusing on in-memory representation of data contained in input C++ header files
- Designed and implemented team-specific bug-tracking dashboard to interface with company-wide bug management system during final two weeks using JavaScript, Dojo, and Python

### **Department of Computer Science, University of Chicago**

*Undergraduate Course Assistant*

*Chicago, IL*

Jun. 2012–Apr. 2014

- Corrected and provided feedback on student homework assignments written in Scheme/Racket, C, and Python for introductory programming and systems sequences
- Augmented course lectures with additional guidance during informal office hours and via online course forum
- Developed software infrastructure to interface with student database and facilitate administrative tasks, such as grade collation and auditing using Bash shell scripts

### **Large Scale Systems Group, University of Chicago**

*Undergraduate Research Intern*

*Chicago, IL*

Jun. 2012–Aug. 2012

- Designed and executed project to evaluate performance runtimes of original and translated parallel computing benchmarks running on a multicore CPU
- Investigated and tested features in C++ using the ROSE Compiler Infrastructure to determine its compatibility with OpenMP, OpenCL, and CUDA parallel programming models

### **Research Experiences in Mathematics Program, University of Chicago**

*Undergraduate Researcher*

*Chicago, IL*

Jun. 2011–Aug. 2011

- Participated in graduate-level courses on linear algebra, combinatorics, and nonlinear dynamics
- Investigated and authored expository paper on metric spaces and various applications, including the contraction-mapping principle

## EDUCATION

---

### **The University of Chicago**

*M.S. in Computer Science*

*Chicago, IL*

Aug. 2014

- *Grade Point Average:* 3.78/4.00
- Master's paper: "Visualization and Analysis of Digital Light-Sheet Microscopy"

### **The University of Chicago**

*B.S. in Computer Science, B.S. in Mathematics*

*Chicago, IL*

Jun. 2014

- *Grade Point Average:* 3.80/4.00
- *Honors:* Dean's List, Carl Gylfe Scholar

## ACTIVITIES & LEADERSHIP

---

### **Chicago Public Schools–University of Chicago Internet Project (CUIP)**

*Technology Assistant*

*Chicago, IL*

Mar. 2012–Jun. 2013

- Promoted technology integration in classrooms through collaboration and planning with instructors
- Developed technology infrastructure through hardware and software installation and repair
- Prepared and organized technology-centered curriculum components with instructors

### **Programming for Discovery: Python/Robotics Program**

*Student Instructor*

*Chicago, IL*

Mar. 2012–Jun. 2012

- Collaborated with fellow student instructors and developed curriculum to expose students to rudimentary aspects of computer programming in the Chicago Public Schools
- Guided students through basic programming projects in after-school tutorial sessions
- Introduced students to real-world applications of computer programming using Arduino robotics kits and exploring basic circuit design

## SKILLS & INTERESTS

---

### **Technical**

#### **Programming & Scripting Languages**

Strong experience with C and Java

Experience with C++, Python, Bash, and Common Lisp/Scheme/Racket

Familiarity with Groovy, Erlang, Go, and MATLAB

#### **Web/UI**

Experience with HTML, CSS, and JavaScript

#### **Operating Systems**

Strong experience with Microsoft Windows, Mac OS X, and Debian Linux distributions

#### **Frameworks, Databases, & Version Control**

Experience with Spring and Ext JS

Experience with SQL/PostgreSQL/SQLite

Experience with SVN and Git

**Language** Proficient in conversational Spanish

**Interests** Current affairs, politics, comedy, reading, and crossword puzzles