

# Luke Peeler

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🌐 <http://lpeeler.com>

## EXPERIENCE

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### PEAK6 Investments, L.P.

*Software Engineer*

*Chicago, IL*

Jul. 2014–Present

### The MathWorks, Inc.

*Software Development Intern*

*Natick, MA*

Jun. 2013–Sep. 2013

- Evaluated legacy code for Control Design Automation team to identify design flaws and propose improvements
- 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 database 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

- Correct and provide feedback on student homework assignments written in Scheme/Racket, C, and Python for introductory Computer Science and Computer Systems sequence
- Augment course lectures with additional guidance during informal office hours and via online course forum
- Develop 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

## EDUCATION

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### The University of Chicago

*M.S. in Computer Science*

*Chicago, IL*

Aug. 2014

- 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

## SKILLS & INTERESTS

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### Technical

#### Programming Languages

Strong experience with C, C++, and Java

Experience with Python, Common Lisp/Scheme/Racket, and MATLAB

#### Operating Systems

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

#### Miscellaneous

Experience with Bash and SQL/SQLite

Experience with SVN and Git

**Language** Proficient in conversational Spanish

**Interests** Current affairs, politics, stand-up/improvisational comedy, exercising, Sudoku and crossword puzzles