

Luke Peeler

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☞ <http://lpeeler.com>

EXPERIENCE

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

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

Technical

Programming Languages

Strong experience with C and Java, including Spring
Experience with C++, Python, and Common Lisp/Scheme/Racket
Familiarity with Groovy, Erlang, Go, and MATLAB

Web/UI

Experience with HTML, CSS, and JavaScript, including Ext JS

Operating Systems

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

Miscellaneous

Experience with Bash and SQL/PostgreSQL/SQLite
Experience with SVN and Git

Language Proficient in conversational Spanish

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