

Luke Peeler

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🌐 <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