

# Robert Kernan

rkernan@gmail.com

16 Arbor Way Drive, Decatur, GA 30030  
(770) 355-4050

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## EDUCATION

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**Georgia Institute of Technology**, Atlanta, GA  
Bachelor of Science in Computer Science  
Focus in Information Internetworks and Platforms  
Major GPA: 3.38

*Aug. 2013*

## TECHNICAL SKILLS

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### Languages

C, C++, C#, Java, Lua, PHP, Python, Ruby

### Systems

Windows 95/NT/XP/Vista/7/8, GNU/Linux

### Software

Ant, Clang (LLVM), CMake, Eclipse, GNU Compiler Collection, Make, MySQL, SQLite, Visual Studio

### Revision Control

Git, Mercurial, Subversion

## WORK EXPERIENCE

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**Southern Polytechnic State University**, Marietta, GA  
Lab/Teaching Assistant for CSE 1302: Introduction to Data Structures

- Assigned lab-work and taught supplemental material.
- Maintained office hours in the lab for students.
- Submitted software requests for lab equipment.

*May 2010 - July 2010*

## PROJECTS

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### Geopost

<https://github.com/spardue/geopost>

Designed and developed a REST API for creating geo-tagged content using Python. Collaborated to build an HTML5 front-end that displayed geo-tagged content on a map using the Google Maps Javascript API.

*June 2013 - Aug. 2013*

### Massive Open Online Course (MOOC) Teaching Assistant Manager

<https://github.com/kernan/MOOC-TA-Management>

Collaborated to design and build a web application for testing and managing teaching assistants for MOOCs using Ruby on Rails; utilized Twitter Bootstrap to create a reactive front-end. Included a REST API for all functionality.

*Jan. 2013 - April 2013*

### International Community School Joomla Intranet

Collaborate to modify and complete and intranet using Joomla that enabled teachers to communicate with students about assignments and upcoming events.

*Mar. 2012 - May 2012*

### Parser Generator and Regular Expression Language Interpreter

Created scanner, parser, and interpreter in Java for a regular expression language that could find, remove, and replace text patterns in a file. The scanner and parser tables were not language specific and could be generated by feeding the program a context-free grammar.

*Nov. 2011 - Dec. 2011*

### Course Manager

Collaborated to create a web application using Grails that handled administrator, teacher, and student creation and associating courses with those users. Personally designed and implemented all authentication and authorization systems in the application.

*May 2011 - July 2011*