Robert Kernan

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EDUCATION

Georgia Institute of Technology, Atlanta, GA   *August 2013*
Bachelor of Science in Computer Science
Focus in Information Internetworks and Platforms

TECHNICAL SKILLS

Languages
- C • C++ • C# • Java • Lua • PHP • Python • Ruby

Operating Systems
- Windows 7 • GNU/Linux

Software
- Ant • Clang • CMake • Eclipse • GNU Compiler Collection • Make • MySQL • SQLite • Visual Studio

Revision Control
- Git • Mercurial • Subversion

WORK EXPERIENCE

Southern Polytechnic State University, Marietta, GA   *May 2010 – July 2010*
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.

PROJECTS

Vector Math Library   *April 2014 – Present*
https://github.com/kernan/math
Built and currently maintaining a C++11 header-only library containing generic size and type vector and matrix implementations with specializations for 2, 3, and 4-dimensions. Includes a unit test suite built using Boost.

Graphics Engine   *July 2013 – Present*
Building a simple, cross-platform (Windows and Linux currently) graphics engine using OpenGL as the rendering backend. Current goals are implementing a more advanced input handling system and adding lighting primitives to the scene.

Geopost   *June 2013 – August 2013*
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.

Massive Open Online Course (MOOC) Teaching Assistant Manager   *January 2013 – April 2013*
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.

International Community School Joomla Intranet   *March 2012 – May 2012*
Collaborate to modify and complete and intranet using Joomla that enabled teachers to communicate with students about assignments and upcoming events.

Parser Generator and Regular Expression Language Interpreter   *November 2011 – December 2011*
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.