Connell Donaghy

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Current Address:
5520 Raleigh Street
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Education

Carnegie Mellon University (Pittsburgh, PA) — *Sept 2012 – May 2016*

- Double Major in Physics/Computer Science
- GPA: 3.24

Technical Skills

Programming: C/C++, Objective-C, Standard ML, Python, JavaScript
Operating Systems: Mac OS, GNU/Linux
Software: Microsoft Office, Maple, Mathematica, Matlab

Work Experience

Software Engineering Intern, DSSD (Menlo Park, CA) — *May – Aug 2014*

- Developed Python modules in C using the Python native interface
- Created sample benchmarking programs to compare developed modules to natively available modules
- Implemented command line interface tools in C for users to easily interact with proprietary libraries

NREIP Intern, NAVSEA (Philadelphia, PA) — *Jun – Aug 2013*

- Researched and implemented genetic algorithm toolkit in Matlab
- Optimized various algorithm parameters to minimize computational runtime
- Presented findings in poster session to the Naval Yard

Lifeguard, Wildwood Crest Beach Patrol (Wildwood Crest, NJ) — *Jun - Aug 2012*

- Assisted in numerous rescues on land and in water
- Created and maintained positive relations with beach patrons

Projects

N3, PennApps, Philadelphia, PA — *Feb 2014*

- Worked in a team of 4 to develop 3-dimensional graphics engine on a terminal screen using Ncurses and OpenGL
- Created large ASCII text generator to display text in-game

Pyuba, Personal Project — *Ongoing*

- Developed unbounded array in Python native interface for quick storage of 32-bit integers
- Benchmarked performance of array against Python's native list type

Dynamic Memory Allocator, Class Project — *Apr 2014*

- Implemented a segregated free lists algorithm to dynamically, quickly, and space-efficiently store memory on the process heap.

Interests

Carnegie Mellon University Men's Track and Field Team — *Sept 2012 -*

- 400m, 800m, 1500m

Intramural Sports

- Dodgeball, Football, Cross Country, Basketball