Adam J. Stewart

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https://github.com/adamjstewart

Education

Cornell University, College of Engineering, Ithaca, NY — May 2014
Bachelor of Science in *Science of Earth Systems*, concentration in *Computational Geophysics*
Graduated Magna Cum Laude with Honors • Cumulative GPA: 3.94 • Major GPA: 4.04

Professional Experience

Assistant System Administrator — October 2015 - Present
Argonne National Laboratory, Lemont, IL

- Installed scientific packages from source code with multiple compilers and MPI implementations
- Collaborated on Python open source supercomputing package manager hosted on GitHub
- Overhauled Continuous Integration (CI) infrastructure using unit tests and flake8 through Travis CI
- Debugged node hardware, GPFS mounting problems, and InfiniBand network issues
- Unracked, moved, and reracked fully loaded servers hosting 1.2 petabytes of storage nodes

Associate Software Engineer — June 2014 - September 2015
Lockheed Martin, Owego, NY

Infrastructure Analytics program (IA)

- Worked on a NYSEG/Iberdrola contract to develop software to detect downed power lines and flooding
- Enhanced simulator for modeling LiDAR data of a town with houses, trees, poles, and power lines
- Programmed primarily in C# in a .NET Framework using Microsoft Visual Studio
- Investigated several different Continuous Integration (CI) software tools for build and test automation

Remote Computer Reader program (RCR)

- Worked on the image processing software used by the USPS to sort and deliver mail
- Performed a Failure Mode and Effects Analysis to track down bugs and discover monetary potential
- Enhanced Performance code (C) and overhauled internal testing tools (Perl, Bash, Python)
- Wrote Expect script to run Makefiles, ssh into remote machine, and ftp tar files to test bench
- Cleared for a Secret Security Clearance in order to access classified address databases

Teaching Experience

Teaching Assistant — May 2014 - June 2014
Department of Earth and Atmospheric Sciences, Cornell University, Ithaca, NY

- Served as a Teaching Assistant for *Satellite Remote Sensing Training for Biological Oceanographers* course
- Taught an intensive graduate course composed of 20 oceanographers from around the world
- Wrote Python lesson plan from scratch and answered questions about Python and IDL programming
- Debugged satellite image processing scripts and managed Python module installation from source code

Undergraduate Python Consultant — January 2014 - May 2014
Department of Computer Science, Cornell University, Ithaca, NY

- Helped teach *Introduction to Computing using Python* and *Transition to Object-Oriented Programming*
- Facilitated learning in a weekly lab session of 36 students, troubleshot assignments, and graded exams
- Held weekly consulting hours, working one-on-one with students to help clarify course material

Computer Skills

Languages: Python, Perl, Ruby, Bash, C, C#, Java, MATLAB, LaTeX, Make, Expect, Tcl, IDL, SQL, HTML, CSS, JavaScript

Software: VCS (Git, CVS), Travis CI, Atlassian (Jira, Confluence, Crucible), flake8, GNU Debugger, SoftEnv, Vim, Sublime Text, Visual Studio, Eclipse, GitHub, GitLab

Platforms: Linux (Fedora, Red Hat, CentOS, Ubuntu, Mint), macOS, Windows