

# ADAM J. STEWART

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## 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 supercomputer package manager hosted on GitHub
- 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 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, troubleshoot assignments, and graded exams
- Held weekly consulting hours, working one-on-one with students to help clarify course material

## COMPUTER SKILLS

**Languages:** Python, Java, C#, C, Perl, Bash, MATLAB,  $\text{\LaTeX}$ , Make, Expect, Tcl, IDL, SQL, HTML, CSS, JavaScript

**Software:** Visual Studio, Eclipse, Sublime Text, Vim, Git, CVS, Atlassian (Jira, Confluence, Crucible, FishEye), SoftEnv, GNU Debugger

**Platforms:** Linux (Fedora, Red Hat, CentOS, Ubuntu), Mac OS X, Windows