

## ADAM J. STEWART

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### EDUCATION

**Bachelor of Science, Cornell University, College of Engineering**, Ithaca, NY May 2014  
Major: Science of Earth Systems • Concentration: Computational Geophysics  
Graduated *magna cum laude* with honors • Cumulative GPA: 3.94 • Major GPA: 4.04

### PROFESSIONAL EXPERIENCE

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

- 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

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

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
- Conducted 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 to access classified address databases

### TEACHING EXPERIENCE

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

- 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

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

- 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, Bash, Perl, Ruby, C, C#, Java, MATLAB,  $\text{\LaTeX}$ , Make, Expect, Tcl, IDL, HTML, CSS, JavaScript  
**Software:** VCS (Git, CVS, GitHub, GitLab), Travis CI, Atlassian (Jira, Confluence, Crucible), flake8, SoftEnv, GNU Debugger, Vim, Sublime Text, Visual Studio, Eclipse  
**Platforms:** Linux (Fedora, RHEL, CentOS, Ubuntu, Mint), macOS, Windows