ADAM J. STEWART

1340 W Morse Ave, Apt 208, Chicago, IL 60626
ajstewart426@gmail.com — (607) 972-5364

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

Associate Software Engineer   June 2014 - Present
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, troubleshot assignments, and graded exams
- Held weekly consulting hours, working one-on-one with students to help clarify course material

RESEARCH EXPERIENCE

Undergraduate Research, with Professor Matthew E. Pritchard   May 2013 - May 2014
Department of Earth and Atmospheric Sciences, Cornell University, Ithaca, NY
- Applied remote sensing techniques such as feature tracking to study the Russian High Arctic
- Investigated the effects of climate change on glacial velocities, calving rates, and ice shelf breakup
- Processed ASTER and Landsat satellite imagery using GMT, AROP, and ROI_PAC software
- Wrote Python, MATLAB, and Bash scripts to automate rapid processing of data
- Designed new method of noise removal based on the comparison of each pixel with its nearest neighbors

COMPUTER SKILLS

Languages: Python, Java, C#, C, Perl, Bash, MATLAB, 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