Adam Stewart

Graduate Student,
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Education

2017 - Present **Ph.D., Computer Science**, *University of Illinois at Urbana-Champaign, College of Engineering*.

2010 - 2014 **B.S., Science of Earth Systems**, *Cornell University, College of Engineering*, *magna cum laude*.
Honors Thesis: Monitoring Glacial Velocity Variation in the Russian High Arctic Using Remote Sensing

Professional Experience

2015 - 2017 **Argonne National Laboratory**, *Lemont, IL*, Assistant System Administrator.

- Collaborated on the development of Spack, a Supercomputing PACKage manager written in Python and hosted on GitHub, enabling the installation of scientific software with multiple compilers and MPI libraries
- Managed a supercomputing cluster composed of 720 36-core Intel Broadwell nodes, each with 128 GB of RAM, and 360 64-core Intel Knights Landing nodes, each with 96 GB of RAM, with a peak theoretical performance of 1.5 PFlops

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

- Enhanced simulator for modeling LiDAR data to test software developed to detect downed power lines and flooding
- Improved performance of the machine learning software used by the USPS to sort and deliver mail

Teaching Experience

2014 **Department of Earth and Atmospheric Sciences, Cornell University**, *Ithaca, NY*, Teaching Assistant.

- Served as a Teaching Assistant for Satellite Remote Sensing Training for Biological Oceanographers course
- Taught an intensive graduate-level 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

2014 **Department of Computer Science, Cornell University**, *Ithaca, NY*, 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, troubleshot assignments, and graded exams
- Held weekly consulting hours, working one-on-one with students to help clarify course material

Computer Skills

Programming	Python, Bash, Perl, Ruby, C, C#, Java, MATLAB, JavaScript, Make, Expect, Tcl, IDL
Markup	LaTeX, Markdown, reStructuredText, YAML, HTML, CSS, XML, XPath, XSLT
VCS	Git (GitHub, GitLab), Mercurial (Bitbucket), CVS
Soft. Eng.	Travis CI, Codecov, PyTest, Flake8, Sphinx, GNU Debugger, Jira, Confluence, Crucible
Sys. Admin.	Spack, Lmod, Environment Modules, SoftEnv, Torque, Maui, Slurm, GPFS

IDEs	Vim, Sublime Text, Visual Studio, Eclipse, WordPress
Platforms	Linux (Fedora, RHEL, CentOS, Ubuntu, Mint), macOS, Windows