

Benjamin J. Cotton

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Experience

IT Systems & Operations, Purdue University *Systems Research Engineer (Oct. 2009 - present)*

- Curate and develop Condor distributed computing environment at Purdue
- Create and maintain campus grid software and middleware for local and DiaGrid partner institutions
- Provide systems and user support for national grid computing activities (e.g. TeraGrid/XSEDE)
- Administer research 4000 hosts as part of computing cluster and infrastructure resources
- Provide training to internal and external audiences
- Develop frameworks for documentation
- Serve as Security Officer for IT Systems and Operations, representing the organization to the CISO and serving as a liaison with the Networks and Security group.
- Supervise 10–12 student employees

Department of Earth and Atmospheric Science, Purdue University *Unix Workstation Support/Systems Administrator (September 2006 - October 2009)*

- Maintain and develop departmental Linux and Solaris servers
- Provide support to users of Linux, Solaris, Mac OS X, and Windows platforms
- Serve as lead for departmental IT staff and representative to department faculty and other groups on campus
- Serve as Security Contact for department, working with University- and College-level security staff to respond to security incidents in the department
- Supervise 3–5 student employees
- Approve departmental IT purchases and maintain IT budget
- Coordinate professional development of IT staff and provide training to faculty and staff

Temporary Service (May - September 2006)

- Provide support to users of Linux, Solaris, Mac OS X, and Windows platforms
- Perform general labor services at the direction of the Assistant Department Head

Student Service (April 2002 - May 2006)

- Maintain Unidata LDM software for weather data ingest
- Develop scripts to generate weather data images for web and desktop use
- Provide support to users of data visualization software
- Administer Forecast Game, including maintain web pages and scripts, obtaining verification data, and handling player enrollment

Education

- M.S. in IT Project Management, expected December 2014
 - Purdue University, West Lafayette, IN
- B.S. in Synoptic Meteorology (minor: Organizational Leadership), granted May 2006
 - Purdue University, West Lafayette, IN

External activities/memberships

- Conference blogger, LISA Conference (2010, 2011)
- Featured weather blogger, JConline.com (2010-present)
- Member, League of Professional Systems Administrators (2009-present)
- Contributor, Sysadvent Blog (2009, 2010)
- Documentation Team, Fedora Project (2009-present)
 - Documentation Team Lead (2011-present)
 - Writer (2009-present)
- GitHub site: <https://github.com/funnelfiasco>

Publications/presentations

- “Condor in your machine room and on your campus” (panel), Condor Week (May 2011)
- “Condor at Purdue: Vegetating, Virtualization, and Videos” (presentation), Condor Week (May 2011)
- “Extending a Desktop Computing Grid with Cloud Resources” (extended abstract), Cloud Computing and Its Applications conference (April 2011)
- Condor BoF host, LISA Conference (November 2010)