

# Daniel Gnoutcheff

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## Education

2007–2012 **Expected: Bachelor of Science**, *Union College*, Schenectady NY, GPA: 3.57.  
*Major*: mathematics, *minor*: computer science  
*Awards*: NSF STEM Scholars Program, Dean's list (2007-2008), Presidential Scholarship

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## Experience

- Summer 2010 **Google Summer of Code**, *NetworkManager: fast-user-switching support and related goodness*, Mentor: Dan Williams, Red Hat and the Linux Foundation.  
Worked with the community to redesign and simplify NetworkManager's configuration system, increasing its flexibility and adding robust support for concurrent users.
- Summer 2009 **Research Fellowship**, *The Mediancentre Rule for Many Alternatives*, Adviser: William Zwicker, Professor of Mathematics, Union College.  
Implemented and conducted numerical experiments on the `MEDIANCENTRE RULE`, a novel but computationally challenging voting system based on an extension of the statistical `MEDIAN`.
- Fall 2008 to Winter 2009 **CT Scholars Project**, *Controlling Head-Parking in Laptop Hard Drives*, Union College.  
Developed and tested power management heuristics designed to prevent excessive wear-and-tear in mobile hard drives.
- Fall 2008 **"The Forklifts"**, *Exploring Engineering Project*, Union College.  
Worked with a small team to design and build a microcontroller-based robot. Designed, implemented, and tested the control software. The team was one of 5 award winners out of over 30 competitors.
- Summer 2008 **Research Fellowship**, *Markov Chain Monte Carlo Methods in Percolation*, Adviser: Gary Reich, Professor of Physics, Union College.  
Implemented and tested an experimental computational method for using `PERCOLATION THEORY`, a mathematical model that can describe a variety of physical phenomena (e.g. the `CURIE POINT`).

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## Skills

- Experienced with GNU/Linux system administration and development.
- Fluent in C, Python, and bash. Some experience with IDL, Scheme, and Java.
- Familiar with glib/gobject, GNU/Linux "plumbing" (DBus, etc.), git, and  $\LaTeX$

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## Activities

- Fall 2009 **PC Renew**, *Rockland PC Users Group*, Volunteer.  
Charity that collects, repairs, and distributes used computers to low-income families.
- Fall 2008 to Fall 2010 **Unix Users of Union**, *Union College*, Co-founder.  
Hosts discussions related to GNU/Linux and free/open-source software.
- Fall 2007 to present **Virtual Union**, *Union College*, Active member and system administrator.  
A workshop for experimenting with computer hardware and software (primarily GNU/Linux-based).
- 2000 to present **Computer-related hobby projects**.  
A variety of small projects related to computers and free/open-source software.