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## Daniel Burrows <[dburrows@debian.org](mailto:dburrows@debian.org)>

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<http://people.debian.org/~dburrows>

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### EDUCATION

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#### Brown University

*September 1998-May 2002*

#### Bachelor of Arts in Computer Science, Magna Cum Laude

- GPA: 3.55 overall, 3.81 in Computer Science

#### The Pennsylvania State University

*September 2002-May 2005*

#### Master of Science in Computer Science and Engineering

- Wrote thesis: "Static Encapsulation Analysis in Featherweight Java".
- GPA: 3.80

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### EXPERIENCE

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#### Debian Project (<http://www.debian.org>)

*October 2000-present*

#### Debian Developer

- Worked with the Debian Project, a worldwide volunteer organization dedicated to producing a high-quality, free, Linux-based operating system.
- Created the aptitude package management frontend (approximately 47,000 lines of C++ code and 10,000 lines of DocBook XML documentation)<sup>1</sup>.

#### The Pennsylvania State University

*September 2002-December 2003*

#### Department of Computer Science and Engineering

(<http://www.cse.psu.edu>)

#### Graduate Teaching Assistant

- Graded and assisted students in CSE 468, Theory of Formal Languages.
- Performed grading duties and prepared course materials, including homeworks, supplementary handouts, and a BSP editor, for CSE 418, Computer Graphics.

#### NASA AMES Research Center

*June 2003-August 2003*

(<http://www.arc.nasa.gov>)

#### Summer Internship through NASA's Education Associates program

- Worked on the Livingstone project, a model-based engine for automated diagnosis of and recovery from hardware failures on spacecraft.
- Studied and implemented techniques for artificial intelligence, particularly automated logical inference (*A\** search, etc).

#### Penn State/NASA Swift Project

*January 2004-June 2005*

#### Department of Astronomy and Astrophysics

(<http://www.swift.psu.edu>)

#### Assistant MOC Network Administrator

- Installed and configured Debian GNU/Linux science support workstations and a central NFS/LDAP server on the Swift Mission Operations Center network.
- Wrote Python scripts to assist in maintaining a network of identical workstations.

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<sup>1</sup>Statistics refer to version 0.4.1, released December 8 2005; lines-of-code are calculated by sloccount.

## SKILLS

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- Programming in languages including C++, Python, and Lisp.
  - C++:
    - 7 years experience.
    - Wrote a 45,000 line frontend application to manage Debian software packages.
    - Wrote a solver for systems of logical constraints at NASA Ames.
    - Spent a semester testing, reading and grading C++-based computer graphics projects.
  - Python:
    - 6 years experience.
    - Wrote a 3,000 line graphical music organizer using the GTK+ graphical user interface library.
    - Wrote a relay-only mail transport agent.
    - Implemented a system for synchronizing configuration changes across multiple workstations.
    - Wrote Python bindings for the “auto-mark” extension to the “apt” C++ library.
- Document creation in  $\text{\LaTeX}$  and in Docbook XML.
- 7 years UNIX/LINUX experience, including software development and system administration (primarily Debian GNU/Linux).