

# Joe Blaylock

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- Objective** To exercise my strong communication skills, creativity, and background in computational and cognitive science while writing software that innovates and inspires.
- Education** BS Computer Science 2002 - 2007  
Indiana University Bloomington, IN
- Minor in Cognitive Science
  - 3.57 GPA; Graduation with Distinction; Dean's List; Computer Science department honors
- Skills**
- C, Python, Scheme, Perl, C++, Bash
  - Neural networks, statistical classification and feature extraction, experiment design
  - Clear speaking and writing, critical thinking, problem-solving
- Academic & Research**
- Evolved Continuous-Time Recurrent Neural Network-Driven Agent (class project) Spring 2007
- Implemented CTRNN, hill-climbing search algorithm, and agent model in Python with NumPy
  - Evolved agent capable of "seeing" and intercepting a target with a foveated eye
- Naïve Bayesian Foreign-Word Classifier (class project) Fall 2006
- Implemented a naïve Bayesian classifier for strings using Python
  - Trained classifier to differentiate phonetic Russian and Polish words
- HPC Undergraduate Cluster Challenge Team Captain Fall 2007
- Managed five engineers to build, install and run 9-node HPC cluster with 30-amp power budget
  - Acted as Linux guru and builds-related "go-to guy" for team
- Professional Experience**
- Part-Time Knowledge Base Systems Administrator 2006 - Present  
Indiana University Bloomington, IN
- Maintain documentation and provide historical context for new sysadmin
- Knowledge Base Systems Administrator 2002 - 2006  
Indiana University Bloomington, IN
- Reduced costs and improved reliability by emphasizing Free and Open Source Software
  - Migrated systems from Solaris and HP-UX to clusters of Linux hosts
  - Developed new systems administration tools for Linux and Solaris (Python, Bash)
  - Developed automated host installation tools based on Debian preseeds and custom packages
  - Held ultimate responsibility for systems in use by 100,000 users on 8 campuses
- Customer Support / Training Coordinator 2001  
Linux NetworX Salt Lake City, UT
- Provided Beowulf cluster support: Kernel builds, Developer toolchain, General Linux help
- Software Development Co-Op 1999 - 2001  
Cinergy Communications Evansville, IN
- Developed web-based data display site; Imported client data into MySQL (Perl, MySQL)
  - Developed new systems administration tools for Solaris servers (Perl, csh, Bash)
  - Extended in-house ticketing system to improve call center throughput (Perl, MySQL)
- Publications**
- "Arts and WebWatcher", *SysAdmin*, Jun 2006
  - "A Brief Introduction to Debian Preseeds", *SysAdmin*, Apr 2006
- Achievements**
- Marathon finisher, 2007
  - T'ai Chi Ch'uan Club Member, Webmaster & Safety officer, 2004-2005