

# Gregory G. Leedberg

www.leedberg.com

## Objective

I am a computer science major looking for a job experience where I can put my passion and skill for software development to use.

## Education

### Cornell University, Ithaca, NY

Master of Engineering, Computer Science, 2005

- Attended from August, 2004, to May, 2005
- GPA: 3.32
- *Master of Engineering project:* Performing text classification using information retrieval in the e-Rulemaking domain

### University of New Hampshire, Durham, NH

Bachelor of Science, Computer Science, 2004

- Attended from August, 2002 to May, 2004
- GPA: 3.56; In-major GPA: 3.81
- Graduated Magna Cum Laude

## Course Highlights

- Foundations of Artificial Intelligence
- Systems Security
- Introduction to Databases
- Project Management
- Software Engineering
- Machine Learning
- Introduction to Networks

## Experience

### Verizon Communications, Lowell, MA

*Internship, June 2004 – August 2004*

- Developed a significant Lotus Notes database designed to replace an antiquated and complicated system for performing overtime technician callouts.
- Database encompassed differing callout rules and procedures for all of Massachusetts, New Hampshire, Maine, Vermont, and Rhode Island, and presented the user a single consistent interface.
- Database has been put into regular use throughout New England and has lowered the chance of user error in performing an overtime callout, while also increasing the speed and efficiency with which a callout can be performed.

### University of New Hampshire Computer Science Dept., Durham, NH

*Software Developer / Teaching Assistant, August 2003 – May 2004*

- Worked with a computer science professor to develop a testing / verification framework for the Java and SML programming languages, a grading system which made use of the testing framework, and finally a submission program which allowed students to submit assignments and receive instant feedback on their grade, using these systems.
- These systems drastically reduced the amount of time required to grade assignments.
- Worked one semester as a teaching assistant using this system to grade student assignments.

## University of New Hampshire ResNet Program

*Network Consultant, August 2001 – May 2004*

- Performed on-site technical support on students' computers, and worked call center.
- Gained experience in computer troubleshooting, as well as networking.
- **“Billy” – Artificial intelligence-based conversation simulation**
  - From 1999-present, have lead an award-winning artificial intelligence project dealing with natural language processing and generation, machine learning, and knowledge representation.
  - Project is relatively substantial (~10,000 lines of C++ code)
  - Currently has been downloaded over 200,000 times worldwide, has been featured on the cable network Tech TV, the German technology magazine Heise, and the newspaper *Sydney Morning Herald*.
- **“GARD” – Fault tolerant, secure file storage**
  - Group project for System Security at Cornell.
  - System implemented a fault tolerant file storage system using digital fountain techniques (LT codes), and security using AES encryption. (C#)
- **Artificial Intelligence Othello Game Playing System**
  - Group project for Artificial Intelligence at Cornell.
  - Used AI techniques such as alpha-beta minimax search, genetic algorithms, and machine learning to produce a system which could play the board game Othello, and learn to play better by observation. (Java)

### Recent Projects

### Other Skills

- Programming languages: C++ (including Visual C++), C#, C, Java, PHP, Pascal, assembly, SML, Lisp, Perl, BASIC.
- Object oriented programming and design
- SQL database queries and manipulation
- Software experience includes:
  - Microsoft Office (Word, Excel, PowerPoint, Project, Visio)
  - IDEs: Microsoft Visual Studio, Eclipse
  - Lotus Notes
  - Internet applications (web browsers, email, FTP, etc.)
  - Microsoft Windows (since 1993, versions 3.1 through XP)
  - Linux (since 2000, specifically Red Hat and Mandrake)

### Awards and Achievements

- Upsilon Pi Epsilon, national Computer Science honor society, 2004
- Sigma Alpha Lambda, national service, achievement, and leadership organization, 2003
- Golden Key International Honour Society at UNH, top 15% of junior and senior classes, 2003
- Douglas R. Woodward engineering scholarship, 2002 - 2004
- UNH Presidential Scholarship, 2000 - 2004
- UNH Honors Program, 2000 - 2002
- Wal-Mart Competitive Edge national merit scholarship, 2000 - 2004
- Dean's List status at UNH, 2000 - 2004

### Volunteer Experience

#### **Meals on Wheels / St. Joseph Community Services, Merrimack, NH**

*Meal Deliverer, June 2003 – August 2003*

- Worked as a volunteer meal deliverer, driving meals to homebound and elderly clients.