

Brandon Skari

Education:

University of Wyoming, Laramie, WY

Ph.D., Computer Science: Started August 2007

South Dakota School of Mines and Technology, Rapid City, SD

B.S., Computer Science: May 2007

B.S., Applied and Computational Mathematics: May 2007

Cumulative GPA: 3.5

Computer Science GPA: 3.7

Work Experience:

Engineering Intern: United States Geological Survey, Earth Resources
Observation and Science, June – August 2007

- Researched alternative user interfaces for purchasing satellite images
- Implemented “slippy map” interface with web service online interface

Developer: March 2006 – August 2006

- Developed Microsoft Word plugin to automate law document citations
- Prepared text files for inclusion in citation database

Engineering Coop: Rockwell Collins International, January - August 2005

- Developed 767 smart tanker upgrade demo for United States Air Force
- Analyzed Java development tools for use on embedded Linux platform
- Filled out software safety questionnaire for VH-60N presidential helicopter

Research Assistant: University of Wyoming, July - August 2001

- Analyzed the effectiveness of solar and wind energy in remote areas

Awards:

Association of Computing Machinery, 2005 ICPC World Finals – Honorable
Mention

Computer Science Outstanding Graduate, 2007

Principle Areas of Coursework:

Machine Learning

Cryptography

Distributed Computing for Cryptographic Applications

Math Research – Geometric Algorithms

Technical Communications I and II

Qualifications:

- Extensive oral and written communication experience and proficiency
- Proficient with C++ and Java, experienced with Ada and C
- Experienced with Visual Studio .NET, Rational Apex, and Linux development tools
- Skilled with Linux and Windows operating systems

Substantial Software Projects:

- Senior Design, Spring 2007 – Soccer Team Automated Generator
Lead a team that developed a program to automatically train a team of artificially intelligent soccer playing drones for the RoboCup competition. Software used genetic algorithms to develop a play strategy; computational work was done by a distributed collection of computers interacting with a central server.
- Artificial Intelligence, Fall 2008 – Shell Sort Optimization
Developed a program to search for new increment sequence equations for the Shell sort using various machine learning techniques. New equations were found that outperformed the current best known equation for input sizes less than approximately 6 million; work is ongoing.
- Unmanned Aerial Vehicle, Summer 2007 – Vehicle Status Monitor
Rapidly developed and deployed monitor and command station software for use with an autonomous helicopter in the AUVSI competition. The software included a scalable map with satellite imagery that showed the location of the helicopter and waypoints, monitoring of various parameters such as helicopter bearing and height, communication signal strength, and battery and fuel status.

Professional and Scientific Organizations:

- Association of Computing Machinery: Member, Fall 2003 - Present
International Collegiate Programming Contest:
 - 2007 Regional: Coach for University of Wyoming team
 - 2006 Regional: 10th of 181 teams
 - 2005 World Finals: Honorable Mention
 - 2005 Regional: 2nd of 181 teams
 - 2004 Regional: 8th of 180 teams
- Linux Users Group: Treasurer, Fall 2002 – Present
- Alternative Fuel Vehicle: Computer Science Lead, Spring 2004 – Spring 2006

References:

To respect their privacy, references are only available upon request.