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CODY DUNNE
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EDUCATION

PhD Student: Computer Science with a specialty in Human Computer Interaction University of Maryland, College Park, MD
August 2007 – Present
GPA of 4.0/4.0

Bachelor of Arts: Double major in Computer Science and Mathematics Cornell College, Mt. Vernon, IA
August 2003 – June 2007

Honors: Graduated magna cum laude with a GPA of 3.8/4.0
Senior Computer Science Student Achievement Award
First Year Computer Science Student Achievement Award
National Excellence Scholarship / National Merit Finalist
Ed Hill Mathematics Scholar
Dean's List – Highest Honors (Spring 2006-2007)
Dean's List – High Honors (Fall & Spring 2003-2004, Fall & Spring 2004-2005, Fall 2006-2007)
Dean's List – Honors (Fall 2005-2006)
First place in 2004 ACM N. Central N. America Programming Contest

Computer Repair and Maintenance Course Northwest College, Powell, WY
January 2002 – March 2002

Troubleshooting and Maintaining PCs Seminar National Seminars Group, Billings, MT
July 2001

LANGUAGES

- Programming: Primarily Java. Some experience with PHP & CakePHP, XHTML, CSS, Perl, Scheme (dialect of LISP), C, ML, Fortran, Prolog, Windows batch scripting, MySQL -- Willing to learn additional programming languages outside of work
- Spoken: 4 years of college Spanish

EXPERIENCE

Research Assistant University of Maryland, College Park, MD
June 2008 – August 2008
Analyzed the relationships between cancer research institutions using graphical network visualizations. Additional responsibilities included improving the Social Action network analysis tool.

Teaching Assistant University of Maryland, College Park, MD
August 2007 – May 2008
Led two resuscitation groups for CMSC 132 – Object Oriented Programming II, taught by Nelson Padua-Perez and Bill Pugh and two resuscitation groups for CMSC 131 – Object Oriented Programming I, taught by Fawzi Emad and Jandelyn Plane. Additional duties included grading and holding office hours.

Summer Undergraduate Research Fellowship Intern National Institute of Standards and Technology, Gaithersburg, MD
June 2007 – August 2007
Developed a prototype display and interaction system for emergency response simulations using Single Display Groupware. Additionally, I evaluated numerous human-computer interfaces and presented my findings in an upcoming NIST Internal Report titled *Emerging Human Computer Interfaces, Their Impact on Group Calibration, and the Barriers to Adoption* by Cody Dunne, Charles McLean, and Guodong Shao.

Summer Undergraduate Research Fellowship Intern National Institute of Standards and Technology, Gaithersburg, MD
June 2006 – August 2006
Evaluated emerging human-computer interfaces for large-scale presentation and collaboration rooms such as computer vision systems for hand or glove tracking, multiple-user input devices, and software for distance collaboration. Additionally I gave four hour-long presentations and demonstrations to two divisions and over 40 NIST employees and made recommendations for NIST use. A few of these technologies may be implemented in the Advanced Manufacturing Systems and Networking Testbed Facility at NIST.

Computer Technician Wind River Seed (Family), Manderson, WY
June 2004 – August 2004
Implemented a backup system for a server and its client workstations and was responsible for all computer maintenance and repair.

Researcher, Farm Worker, and Seed Collector Absaroka Farm (Family), Worland, WY
July 2003 – August 2003, June 2004 – August 2004

Researched the effects of drought stress on native Wyoming reclamation plants, including the measuring of plant sap pH, Brix, and electrical conductivity. Also performed various tasks including seed collection, herbicide application, and equipment transportation.

Technology Center Director

Boys & Girls Clubs of America, Worland, WY

June 2001 – July 2003

Educated K-12 youth in technology related areas, including HTML, network design, electrical circuits, and use of popular software. Also responsible for organizing and directing educational and athletic activities, reinforcing positive values, and providing emotional support. Additional duties included the maintenance and repair of club computers and electronic devices.

Owner of Disk Jockey Business

Frontier DJ (Owner), Manderson, WY

July 2000 – August 2003

Built a disk jockey business from scratch that provided music for weddings, bars, dances, and other social events using my PC. Received a loan for startup costs, including a speaker system and light display, which was rented and then sold to another local DJ after leaving for college.

RESEARCH PROJECTS

- Student Symposium
 - (2007) – Created a committee and faculty web database & discussed the challenges of web application design
 - (2007) – Displayed emerging human-computer interfaces and discussed previous summer evaluation work at NIST
 - (2006) – Designed and built a 6-legged autonomous walking robot
 - (2005) – Designed, built, and tested a 4-bit Arithmetic and Logic Unit for a computer processor
 - (2004) – Created a Java 3D first-person-shooter computer game and level editor

MEMBERSHIPS & ORGANIZATIONS

- President, Torch chapter of the Mortar Board national senior honor society
- President (2 years) & Treasurer, Sigma Tau Social & Service Group - Sponsor annual scholarship & science fair award
- Treasurer, Cornell College Chapter of the Mathematical Association of America
- Eyes of the World international student support and cultural awareness group
- Association for Computing Machinery Student Member
- Mathematical Association of America Student Member
- Disc jockey for KRNL (Cornell's radio station)

SERVICE ACTIVITIES

- Lunch Buddies elementary student mentoring program (3 years)
- Worked on World2Kids.com when it was active
- Mathematics Department Faculty Search Committee
- Sophomore Writing Portfolio pilot project
- Sponsored and organized a seminar on repetitive stress injuries for our campus
- Various volunteer activities through Cornell's Leadership and Service Office

References available upon request