

SHANNON PROGRAMMER

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Career Objective: Analytical, strategic thinker and Network Administrator with advanced computer expertise and creative, versatile programming skills, seeking to secure a challenging position in Software Development.

EDUCATION

Master of Science, Computer Science – University of Minnesota, Duluth, MN, UMD April 2010
GPA: 3.8/4.0

Thesis: Collected color spectrum data used to model human perception under adverse weather conditions. Designed and developed an innovative model using adaptive filters and pattern recognition techniques. Designed several specialized computer systems used in simulation. Obtained funding from the Minnesota Department of Transportation to support research.

Bachelor of Science, Cum Laude, Computer Science – Capital College, Crystal, IA May 2008
GPA: 3.74/4.0

Advanced Coursework: *Advanced Computational Logic* ⇨ *Advanced Computer Graphics* ⇨ *Systems Programming* ⇨ *Software Engineering* ⇨ *Advanced Graph Theory* ⇨ *Advanced Computer Architecture* ⇨ *Computer Networks* ⇨ *Database Systems Management* ⇨ *Digital Signal Processing* ⇨ *Artificial Neural Networks*

COMPUTER EXPERTISE

Systems: UNIX, Solaris, Linux, Windows, Mac, DOS
Languages: C, C++, Java 2, JavaScript, XML, HTML, UML, Perl, Assembly, Visual Basic, FORTRAN, Python, Lisp, Pascal, COBOL
Software: SRGP, Tivoli, Secureway Policy Director, Lotus Notes, Macromedia Dreamweaver, Adobe Photoshop, MS Office Suite, Expat parser toolkit, Final Cut Pro
Database Tools: SQL, MS Access
Other: SNMP, TCP/IP, MPI, Multiprecision packages, XML, Flash, LaTeX

PROFESSIONAL EXPERIENCE

Teaching Assistant, Department of Computer Science – UMD Sept. 2008–Present

- ⇨ Design and prepare creative course learning material for undergraduate courses: Computer Science I, Introduction to C, Introduction to C++, Data Structures, and Software Development
- ⇨ Prepare and evaluate homework assignments and laboratory projects in alignment with benchmarks
- ⇨ Conduct recitation sessions and laboratory practice to assist students in improving academic performance

Technology Security Systems Intern, Cloverville National Labs – Cloverville, AZ Jun. 2008–Aug. 2008

- ⇨ Engineered a virtual network required to efficiently execute assigned tasks using VMWare software
- ⇨ Identified potential weaknesses in configuration process of Cisco VPN client for remote access to Intranet
- ⇨ Performed similar analysis of Zone Alarm personal firewall used to protect system
- ⇨ Recommended strategic actions implemented to minimize the potential of compromise through VPN exploit
- ⇨ Developed evidence of concept tools used to demonstrate discovered exploits, and presented to department