JOEL D. DANIELS II

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OBJECTIVE

Seeking a full-time position in computer graphics software development. Interested in work involving inventiveness, creativity, and group interaction. My strengths include graphics, modeling, computer networking, human-computer interaction, studio art, recurring high academic accomplishments, and leadership skills.

TECHNICAL EXPERIENCE

Software: C, C++, Java, Perl, SML, HTML, TCL and others.
Hardware: PC's (Windows 98/2000/NT/XP, Redhat, SuSe, Mac OS X,Leopard), Sun Solaris, and others

EDUCATION

PhD Computer Science
University of Utah, May 2009 (Expected Graduation), Overall GPA: 4.0
MS Computer Science with Thesis Option
University of Utah, December 2005, Overall GPA: 3.98
BS Computer Science with University-Honors-in-Major and Minor Studio Arts,
University of New Hampshire, May 2003, Overall GPA: 3.94

WORK EXPERIENCE

August 2003 to Present: Teacher/Research Asst. and Self-Contract Software Engineer, University of Utah
Researching geometric modeling of point-based models, NURB surfaces and meshed data. Developed Java based media player and data collection tool on which several MS and PhD students from the Ergonomic Studies group have conducted research and obtained degrees.

Summer 2002: Researcher, INRIA (Rennes, France)
Researched Wide Area Network bandwidth utilization for Grid Computing applications. Built a preliminary library for Wide Area Network data transfers. Proposal preparation, thesis development, and presentation experience.

October 2000 to August 2003: Service Quality Analyst/Software Engineer, UNH InterOperability Lab
Tested network communication protocols, aided in test suite development, and extended in house network sniffer and packet generator to support new protocols. Worked on developing an MPLS RSVP emulator. Development was done in C, Java, and TCL and included object-oriented design.

PUBLICATIONS/PRESENTATIONS

"Quadrilateral Mesh Simplification"
SIGGRAPH Asia, 2008.
"Spline-based Feature Curves from Point-Sampled Geometry"
The Visual Computer, 2008.
"Robust Smooth Feature Extraction from Point Clouds"
Shape and Modeling International, July 2007.
"Surface Creation and Curve Deformations Between Two Complex Closed Spatial Spline Curves"
Geometric Modeling and Processing, July 2006.
"Converting Molecular Meshes into Smooth Interpolatory Spline Models"
ASME—IDETC Computer and Information in Engineering, October 2005.
"Improving Network Performance of Grid Computing Applications"
Senior Honors Thesis Defense, University of New Hampshire, October 10, 2002.
(Presented at the 2003 Posters on the Hill Undergraduate Research Conference at Washington D.C.)

AWARDS/ACHIEVEMENTS:

Graduated Valedictorian Goffstown High School (1999)
William H. Pope Lockheed Sanders 4 year Scholarships (1999)
University of New Hampshire 4 year Presidential Scholarship (1999)
Ellsworth IROP Award, awarded to the best submitted research proposal (2002)
Executive officer of Upsilon Pi Epsilon (Computer Science Honor Society) (2003)
UNH Hood Achievement Award, given "*to that senior man who shows the greatest promise through character, scholarship, leadership and usefulness to humanity*." (2003)
One of the Best of Conference Papers Award, Shape and Modeling International (2007)