

2318 Keyes Ave.
Madison, Wisconsin 53711
(608) 332-7221
beermann@gmail.com
<http://www.cs.virginia.edu/~drb3t>

Dale Beermann

Experience

Sharendipity

Software Architect, Founder

Design an implementation of a platform for community-based software development, currently seeking an initial round of financing to enable the company to bring the current prototype to market.

September 2006—present

Gorges Software LLC

Partner

Design, develop, and maintain MyOutdoors.net, a full-featured community-driven website allowing users to journal, map, and share their outdoor activities.

January 2006—present

Imago Scientific Instruments

Application Software Developer

Designed and implemented software for analyzing atom probe data in 2-D and 3-D including functions such as composition profiles, spectral analyses, Fourier methods, isoconcentration surfaces, interface roughness and characterization.

November 2005—June 2006

Emageon Inc.

Client-side Development Engineer, Volume Rendering Team Lead

Responsibilities include the development and implementation of software design specifications for volume rendering and segmentation of medical image data. Other duties include maintenance of the 2D and 3D imaging code base, significant work optimizing application performance, and level three support of customer incidents.

June 2004—November 2005

University of Virginia, Computer Science Department

Graduate Research Assistant / Graduate Teaching Assistant

Primarily involved in research projects for large tree visualization and distributed and remote rendering. Enhanced interpersonal communication and advising skills through holding office hours and leading weekly computer laboratories teaching C++ to approximately 70 beginning engineering students.

September 2003—May 2004

ReQuest Ltd.

Database and Web Developer

Internship January 2000. Hired full-time in May 2000. Developed and maintained relational databases for Internet-based information delivery using ASP and SQL to centralize client infrastructure. Designed websites and administered a small WinNT network. Organized and held client meetings to discuss project requirements.

January 2000—August 2003

Education

University of Virginia, Charlottesville, VA

Master of Computer Science May 2004; GPA: 3.75; Advisor: Greg Humphreys

Admitted to Ph.D. program following completion of comprehensive qualifying exams in January 2004.

University of Wisconsin—Madison, Madison, WI

B.S. in Computer Science May 2002; GPA 3.54

Papers and Abstracts

Beermann, Dale, Munzner, Tamara, and Humphreys, Greg. *Scalable, Robust Visualization of Very Large Trees*. In *Proc. EuroVis 2005*, pages 37-44, 2005.

Beermann, Dale and Humphreys, Greg. June 2003. *Visual Computing in the Future: Computer Graphics as a Remote Service*. University of Virginia Technical Report CS-2003-16.

Beermann, Dale. The ADDS Center InfoBase: *The Technical Aspects Behind a Multimedia Information Resource for Agriculture*. *Journal of Animal Science*, Vol. 78, Suppl. 1/2000.

Presentations

Beermann, Dale. Event Distribution and Image Delivery for Remote Cluster-based Visualization. IEEE Visualization workshop on Parallel Visualization and Graphics. October 2003.

Beermann, Dale. Remote Rendering using Commodity-based Clusters. IEEE Virtual Reality workshop on Commodity Clusters for Virtual Reality. March, 2003.

Projects**Large Tree Visualization**

Master's project work. Redesigned application for visualizing large tree datasets, applying software engineering techniques and emerging technologies in graphics hardware to reduce memory footprint by 90% and decrease running time by 95%.

Remote Visualization

Designed and implemented a system infrastructure for remote rendering, focusing on modular components for event distribution and remote image delivery. Currently used in several national laboratories.

Service**Computer Science Graduate Student Group****April 2003—April 2004***Steering Committee Member***School of Engineering and Applied Sciences****February 2004—April 2004***Interviewing Committee Member - Dean Candidate Search***Computer Skills**

Languages: Java, C/C++, Python, Visual Basic, C#

Operating Systems: Unix/Linux, WinNT/2000/XP

Other: OpenGL, JProbe, HTML/XML, ASP, CSS, COM, PHP, SQL, \LaTeX , Flex, Bison, make, gdb, cvs