

Gregory M. Cipriano

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Education

- University of Wisconsin-Madison Madison, Wisconsin 2004 –
- Pursuing PhD in Computer Science
- University of Oregon Eugene, Oregon 1996 - 2000
- BS with honors, double major in Computer/Information Science and Math, minor in Music.
 - Magna Cum Laude, GPA: 3.9/4.0. CIS GPA: 4.08
- Sandpoint High School Sandpoint, Idaho 1992 - 1996
- Graduated Valedictorian, GPA: 4.0

Work experience

- WellMed/WebMD 2000 - 2004
- Created database-driven web applications using C#, SQL, Java, Javascript and HTML with CSS. Led small group of developers to customize look and feel of code to each client's needs, including Microsoft, Ford, Kraft and Delta.
- Industrial Publishing/Koke Printing 1998 - 1999
- Built/fixd computers, managed Intranet of Macintoshes, Win95 and WinNT with Novell server, wired cat-5, assisted users, researched and advised purchases.

Honors/Awards received

- CIBM Traineeship, 2005
- Inducted into Phi Beta Kappa honors fraternity
- Dean's List Fall '96, Fall '97 through Spring '2000
- Wm. H. Stenhjem Jr Scholarship, 1999
- Laurel Scholarship, 1998
- 6th place, 1999 ACM Pacific Region programming contest
- 1st place, 1999 University of Oregon programming contest
- 1st place, 2000 University of Oregon programming contest

Academic Research and Projects

- Physically Based Rendering – Worked under Prof. Chenney to adapt PBR toolkit to allow for motion blur. We wanted to show that non-deterministic sampling methods (ie. Monte-Carlo) introduce unacceptable visual noise when sampling temporally. Spring 2005 term.
- DinoMorph Project – Researched and implemented several inverse-kinematic methods for articulated dinosaur skeletal structure. Winter 2000 term.
- Head-Sphere Project – Project for determining head-tissue conductivities by solving system of linear equations. Updated to use MPI in 4-way and 8-way multiprocessing configurations. Effected 3x speed increase. Winter 2000 term.

- MidiStat – Music analysis project for CS Honor's thesis. Investigated statistical methods for determining key, chord progressions in arbitrary MIDI files. Spring 2000 term.
- Netboard – Distributed whiteboard application using client/server (star-topology) for host resolution and peer-to-peer for whiteboard. Built with Java2D, Swing libraries. Spring 2000 term.
- Personal Fractal project – For fun, wrote Swing Java application that allows user to play around with Mandelbrot, Julia, Newton, Lyapunov and other fractals. Started in Fall of 1998.

**Academic
Interests/Skills**

- Numerical analysis: solvers (for linear, differential equations, etc.), error analysis.
- Graphics: rendering techniques (real-time and ray-tracing), data visualization

Computer Skills

- C++, C, Java, SML, HTML, SQL
- Windows, Linux, Macintosh use and system administration

**Interests and
activities**

Music performance and theory, jazz piano and clarinet, skiing, sailing, camping