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Summary

Senior Computer Science undergraduate, specializing in computer graphics and artificial intelligence. Seeking professional experience and graduate degree in computer graphics. Portfolio is available at <http://www.cs.hmc.edu/~sdiverdi/portfolio/>

Work Experience

- Senior Research, Spring 2002 - Harvey Mudd College (course) - **Researcher** - Two student project, conceived in fall, 2001. Design and development of advanced photorealistic rendering technique derived from progressive radiosity in C++ and OpenGL for Solaris. Online at <http://www.cs.hmc.edu/~sdiverdi/radiosity/>
- Senior Clinic, Fall 2001 – Spring 2002 - United Devices (course) - **Team Leader** - Porting of biomedical applications to massively distributed framework, involving parallelization of major data analysis algorithms. Directed team of four students – organized schedule, divided work, tracked progress, resolved conflicts. Windows and RedHat development in C and Perl.
- Adobe Systems Inc., Summer 2001 - Advanced Technology Group, **Intern** - Continued previous summer's work on file format conversion, focusing on font conversion and embedding. Windows and Macintosh development in Visual C++, Acrobat API, SVG and PDF formats.
- Mail2World, Inc., Fall 2000 - **Software Developer** - Design and implementation of a web based, multi-lingual email client. Programming in Java 1.1 and 1.3 using Visual J++ on Windows.
- Software Development, Fall 2000 – Harvey Mudd College (course) - **Team Leader** - Design and implementation of user interface of logical circuit builder in Java, for use by introductory computer science course. Also, team organization, motivation and collaboration, as leader. Project is available at <http://www.cs.hmc.edu/~sdiverdi/gatebuilder/>
- Adobe Systems Inc., Summer 2000- Advanced Technology Group, **Intern** - Design and implementation of next generation file format. Windows and Macintosh development in Visual C++ 6.0, using the Adobe Acrobat plugin API.

Skills

- Very familiar with all major operating systems
- Fluent in C/C++, Java, Perl, Bourne shell, XML, OpenGL, MPI
- Knowledgeable in numerous standard graphics, artificial intelligence, and vision algorithms
- Knowledgeable in many areas of mathematics, including vector calculus, linear algebra, differential equations and fractals
- Portfolio available at <http://www.cs.hmc.edu/~sdiverdi/portfolio/>

Education

1998-2002 Harvey Mudd College, Claremont, CA
(projected completion)
Current GPA of 3.58 (Dean's List)
Pursuing BS in Computer Science