

PRADEEP GARIGIPATI

<http://students.cse.tamu.edu/garigipp/>

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Objective

Seeking a full time opportunity as a software development engineer.

Education

- **Texas A&M University**, College Station, Texas Graduation Date: May 2013
Master of Science in Computer Science (GPA: 3.64)
 - Course Work: Computer Architecture, Algorithms & Analysis, Parallel Computing, Geometric Modeling, Image Synthesis, Physics Based Simulation, Rendering & Shading, and Image & Video Processing.
- **National Institute of Technology**, Durgapur, West Bengal, India. Graduation Date: May 2008
Bachelor of Technology in Computer Science and Engineering (GPA: 8.82/10)

Skills

- **Programming languages:** C/C++, Python, OpenGL, GLSL, RSL, Java, PL/SQL
- **Frameworks:** Qt, Cinder, Pthreads, MPI, CUDA
- **Web languages and frameworks:** HTML, CSS, J2EE Servlets, JavaScript
- **Server platforms:** WebSphere Application Server V6.1, Apache
- **Tools and Software:** Photoshop, HDR Shop, Matlab, \LaTeX

Academic Projects

- **Texas A&M University**
 - Developed a Ray Tracing renderer with GUI interface.
 - Created a physics based simulation of bird flight.
 - Implemented a parallel algorithm to do Cholesky decomposition using MPI and CUDA.
 - Studied and implemented swept volume generation for three dimensional surfaces.
- **National Institute of Technology**
 - Designed a Java GUI application which assists in drawing Data Flow Diagrams.
 - Developed an algorithm for bot-exploration on closed surfaces achieving a coverage of 59%.

Work Experience

- **Visualization Department, Texas A&M University**, College Station, TX September 2012 - Present
Research Assistant
- **USC Institute of Creative Technologies**, Playa Vista, CA May 2012 - July 2012
Visiting Research Assistant
- **Open Access Labs, Texas A&M University**, College Station, TX September 2011-April 2012
Student Worker
- **Tata Consultancy Services Limited**, Mumbai, India July 2008-June 2010
Assistant Systems Engineer

Publications

- Pradeep Garigipati, Ergun Akleman: Duotone Surfaces. International Symposium on Computational Aesthetics in Graphics, Visualization, and Imaging, 2012. Annecy, France. 99-106.
- Yufeng Zhu, Pradeep Garigipati, Pieter Peers, Paul Debevec and Abhijeet Ghosh. Estimating Diffusion Parameters from Polarized Spherical Gradient Illumination. IEEE Computer Graphics and Applications, 2013(To Appear).

Achievements and Activities

- Completed IBM Certification as System Administrator, WebSphere Application Server Network Deployment V6.1.
- Completed Green Belt Certification in Six Sigma.