Rahul Garg

Research Engineer
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Education

- **University of Washington**, Seattle, WA **2007 - 2012**
  Ph.D. in Computer Science and Engineering
  Advisor: Prof. Steven M. Seitz **Thesis**: Unstructured Image Mosaics
- **Indian Institute of Technology (IIT) Delhi**, India **2003 - 2007**
  Bachelor of Technology in Computer Science and Engineering
  GPA: 9.91/10.0, President's Gold Medal
  Highest GPA amongst all outgoing B.Tech. students across all majors
  All India Rank 7 among 172000 candidates in IIT-Joint Entrance Exam. 2003

Experience

- **Software Engineering Intern** at **Google Seattle** **June 2011 - September 2011**

  Prototyped an Android app that allows the user to take overlapping photos of a scene and browse them in an interactive viewer. US patent pending.

- **Software Engineering Intern** at **Google Seattle** **March 2010 - September 2010**

  Implemented and launched the *Face Movie* feature included in Picasa 3.8 in just 4 months. US patent pending. Extensively covered in press. Demo video has 1.5 million views on YouTube. Thousands of user created face movies uploaded to YouTube.

- **Research Intern** at **Microsoft Research Redmond** **June 2008 - September 2008**
  Mentor: Dr. Richard Szeliski

  Designed custom features for matching and 3D reconstruction of man made scenes from photos.

- **Research Engineer** at **B-Core Software Pvt. Ltd., New Delhi** **June 2007 - Aug 2007**

  Worked on an image segmentation application for mobile platforms to decode color codes from an image of a colored sequence (analogous to bar codes).

- **Research Intern** at **Microsoft Research India** **May 2006 - July 2006**

  Developed locally invariant fractal features for statistical analysis and classification of textures. Published at ICCV 2007.

Honors and Awards

- **6** publications (2 at SIGGRAPH, 2 at ICCV).
- **Reviewer**: SIGGRAPH'13, ICVGIP (2010, 2012).
- **Talks**: SIGGRAPH (2008, 2011). Invited speaker at IIT Delhi, September 2008.
- **NVIDIA Fellowship**: 2009-2010.
- Among **top 12** finalists in TopCoder Open 2008 Marathon competition, an **international** programming contest hosted by www.topcoder.com.
- **Rank 1** in Common Engineering Test (Delhi) 2003, **Rank 18** in All India Engineering Entrance Examination 2003.

Publications

- R. Garg and S.M. Seitz. **Dynamic Mosaics**, In Proc. of *3D Imaging, Modeling, Processing, Visualization, Transmission Conference (3DIMPVT), 2012*
- I. Kemelmacher-Shlizerman, E. Shechtman, R. Garg and S.M. Seitz. **Exploring Photobios**, *ACM Transactions on Graphics (Proceedings of SIGGRAPH 2011)*
- R. Garg, D. Ramanan, S.M. Seitz and N. Snavely. **Where's Waldo: Matching People in Images of Crowds**, *In Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Colorado Springs, June 2011*
- R. Garg, H. Du, S.M. Seitz and N. Snavely. **The Dimensionality of Scene Appearance**, *In Proceedings of the IEEE International Conference on Computer Vision (ICCV), Kyoto, Japan, October 2009*
- N. Snavely, R. Garg, S.M. Seitz and R. Szeliski. **Finding Paths through the World's Photos**, *ACM Transactions on Graphics (Proceedings of SIGGRAPH 2008)*
- M. Varma and R. Garg. **Locally Invariant Fractal Features for Statistical Texture Classification**, *In Proceedings of the IEEE International Conference on Computer Vision (ICCV), Rio De Janeiro, Brazil, October 2007*