

Rahul Garg

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Computer Vision Researcher + Engineer with proven track record of converting research to products.

Experience

- **Senior Research Scientist at Google VR Team, Mountain View** Oct'13 - Present
Using Deep Learning to push the state of the art in VR.
 - **Research Engineer at Flutter, (Acquired by Google)** April'12 - Oct'13
Gesture recognition startup (Mac app rated 4.5+, among Apple's Best Apps of 2012), one of the **first** employees. Sped up recognition by **10×**, automated training data collection, co-invented new state of the art image feature, developed across OS X, Win, Linux, iOS, Android, Chrome (NaCl and JS).
 - **Software Engineering Intern at Google Seattle** March'10 - Sept'10, June'11 - Sept'11
 - **Implemented and launched** the *Face Movie* feature included in Picasa 3.8 in just 4 months. Extensively covered in press. Demo video has 1.5 M+ views on YouTube.
 - Prototyped an Android app to capture *dynamic mosaics*, an extension of panoramas.
 - **Research Intern at Microsoft Research** June'08 - Sept'08, May'06 - July'06
Mentor: Richard Szeliski / Manik Varma
 - Designed custom features for matching and 3D reconstruction of man made scenes from photos.
 - Developed locally invariant fractal features for classification of textures (Published at ICCV).
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Education

- **University of Washington, Seattle, WA** 2007 - 2012
Ph.D. in Computer Science and Engineering
Advisor: Prof. Steven M. Seitz
 - **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
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Honors and Awards

- Publications at top-tier vision and graphics conferences (SIGGRAPH, ICCV, CVPR). 6 patents.
 - Fellowships: NVIDIA Fellowship (2009-10), Clairmont L. Egtvedt Fellowship (2007-08), Weil Family Endowed Fellowship (2007-08), NTSE Scholarship by Govt. of India (2001).
 - Programming Contests: **Top 12** in TopCoder Open 2008 Marathon competition (**international** event), **Top 50** in Google Code Jam India 2006
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Publications

- I. Kemelmacher-Shlizerman, E. Shechtman, R. Garg and S.M. Seitz. **Moving Portraits**, *Communications of ACM, Research Highlights, Sep 2014 (Cover Story)*.
 - 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)*. Featured on SIGGRAPH cover.
 - 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*
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