

## Rahul Garg

Research Engineer  
Flutter Inc.  
47, Maiden Lane, San Francisco

Ph:(206) 708 5975  
<http://www.rahulgarg.co>  
email: rahul@flutterapp.com

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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
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## Experience

- **Research Engineer at Flutter, San Francisco** **April 2012 - Present**  
Gesture recognition startup, one of the first employees. Sped up recognition by over **10X**, automated training data collection, named co-inventor on **3 patents** including new state-of-the-art image feature, developed across OS X, Win, Linux, iOS, Android, Chrome (NaCl and JS extension).
  - **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 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.
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## 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.
  - **Programming Contests:** **Top 12** in TopCoder Open 2008 Marathon competition (**international** event), **Top 500** in Google Code Jam 2008, **Top 50** in Google Code Jam India 2006
  - **Rank 1** in Common Engineering Test (Delhi) 2003, **Rank 18** in All India Engineering Entrance Examination 2003.
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## 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
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