

Rahul Garg

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Objective

A summer internship opportunity involving research in Computer Vision and Graphics

Education

- **University of Washington**, Seattle, WA **2007 - Present**
Ph.D. candidate 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)
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Experience

- **Research Assistant at University of Washington** **Fall 2007 - Present**

Ongoing work on recovering 3D geometry from large photo collections and developing techniques to aid visualization of the recovered scene
 - **Research Engineer at B-Core Software Pvt. Ltd., New Delhi** **Summer 2007**

Worked on an 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** **Summer 2006**
Guide: Dr. Manik Varma

Worked on developing locally invariant fractal features which allow for statistical analysis and classification of textures.
 - **Summer Internship at IIT, Delhi** **Summer 2005**
Guide: Prof. Subhashis Banerjee

Worked on detecting vehicles in a video stream that included study of Scale Invariant Feature Transform (SIFT), Principal Component Analysis (PCA) and Generalized Hough Transform. Recipient of prestigious **SURA** (Summer Undergraduate Research Award) , 2005 awarded by Industrial Research and Development Unit (IRD), IIT Delhi.
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Publications

- N. Snavely, R. Garg, S.M. Seitz, R. Szeliski. **Finding Paths through the World's Photos**, submitted to ACM Transactions on Graphics (SIGGRAPH) 2008

- M. Varma and R. Garg. **Locally Invariant Fractal Features for Statistical Texture Classification**, In Proceedings of the IEEE Conference on Computer Vision (ICCV), Rio De Janeiro, Brazil, October 2007
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Academic Achievements

- Recipient of the **Weil Family Endowed Fellowship** for the year 2007-2008 at the University of Washington
 - Recipient of the **Clairmont L. Egtvedt Fellowship** awarded by College of Engineering, University of Washington, 2007-2008
 - Awarded the **President of India Gold Medal** for securing the highest cumulative GPA among all outgoing B.Tech. students across all disciplines in 2007 batch, IIT Delhi
 - Secured All India Rank **7** among 172,000 candidates in IIT-Joint Entrance Examination 2003
 - Secured Rank **1** in Common Engineering Test (Delhi) 2003, Rank **18** in All India Engineering Entrance Examination 2003
 - Selected for NTSE (National Talent Search Examination) Scholarship awarded by the Govt. of India
 - Selected for Training Camp, Indian National Physics Olympiad 2003
 - Awards in many mathematics contests - RMO (Regional Mathematics Olympiad), SMO (Senior Mathematics Olympiad), Ramanujan Society for Born Mathematicians Competition, etc.
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Relevant Courses Undertaken

Analysis and Design of Algorithms, Linear Algebra, Computer Architecture, Data Structures, Programming Languages, Design Practices in Computer Science, Numerical and Scientific Computing, Operating Systems, Independent Study in Computer Vision, Introduction to Probability and Stochastic Analysis, Digital Image Processing, Multivariate Statistical Analysis, Computer Graphics

Extracurricular Activities

- Avid interest in programming competitions. Among top 50 finalists in Google Code Jam India, 2006 - Programming Contest organized by Google which attracted over 14,000 participants from South East Asia. Problem setter for International Online Programming Contest organized during Tryst 2007, the technical festival of IIT Delhi. Represented IIT Delhi in ACM International Collegiate Programming Contest. Regular member of www.topcoder.com - a website hosting global programming competitions, ranked among top 10 in India as of February 2008
 - Completed 100 hours of social service under NSS (National Service Scheme)
 - Active member of HinduYUVA - a cultural group on UW campus
 - Sports: Cricket
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