Rahul Garg

Department of Computer Science and Engineering

University of Washington

Box 352350, Seattle, WA 98195

Ph:(206) 708 5975

http://www.cs.washington.edu/homes/rahul

email: rahul@cs.washington.edu

Objective

A summer internship 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)

Publications

- R. Garg, H. Du, S.M. Seitz and N. Snavely. **The Dimensionality of Scene Appearance**, *In Proc. 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 Trans. on Graphics (Proc. of SIGGRAPH 2008)*
- M. Varma and R. Garg. **Locally Invariant Fractal Features for Statistical Texture Classification**, *In Proc. of the IEEE International Conference on Computer Vision (ICCV), Rio De Janeiro, Brazil, October 2007*

Experience

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

  Ongoing work on using large Internet Photo Collections for Computer Vision.

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

  Worked on the problem of detecting and matching features across images of man made scenes.

- **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. Recipient of prestigious **SURA** (Summer Undergraduate Research Award), 2005 awarded by Industrial Research and Development Unit (IRD), IIT Delhi

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Talks

- **Finding Paths through the World's Photos** (with Noah Snavely)
  SIGGRAPH 2008, Los Angeles, CA, August 2008.
- **Beyond Photo Tourism: Guided Navigation of Internet Photo Collections**
  Indian Institute of Technology (IIT) Delhi, India, September 2008.

Academic Achievements

- Recipient of **NVIDIA Fellowship** for the year 2009-2010.
- 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), etc.

Skills

- Experienced with Unix/Linux and Windows platforms
- Extensive use of C/C++, MATLAB

- Familiar with Java, C#, Silverlight, HTML

Extracurricular Activities

- Avid interest in programming competitions
  - Among top 12 finalists in TopCoder Open 2008 Marathon competition, an international event hosted by www.topcoder.com
  - Among top 500 onsite finalists in Google Code Jam 2008, an international programming contest organized by Google
  - 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 2007
- Completed 100 hours of social service under NSS (National Service Scheme)
- Tutored undergraduate students at University of Washington during Fall 2008, Fall 2009.
- Active member of HinduYUVA - a cultural group on UW campus

References

- **Steven Seitz**
  Professor, Department of Computer Science and Engineering
  University of Washington
  Box 352350
  Seattle, Washington 98195-2350
  Phone: (206) 616-9431
  Email: seitz@cs.washington.edu

- **Noah Snavely**
  Assistant Professor, Department of Computer Science
  Cornell University
  Ithaca, NY 14853-7501
  Phone: (607) 255-4280
  Email: snavely@cs.cornell.edu