Ishan Misra

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Résumé

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Date of Birth: 26th November, 1990

Objective

To apply knowledge from the field of computer science, in order to develop and support new technologies or products. I find thrill in taking on new real world problems and solving them. I wish to be part of <u>industry oriented research</u>.

Education				
Degree	Institute	Stream/Board	Year	Performance
BTech(3 rd	International Institute Of Information	Computer Science	2008-10	CGPA: 9.73/10
Year)	Technology, Hyderabad	Engineering		
Senior	Fergusson Junior College, Pune	Science (Maharashtra State	2008	Percentage: 92.33%
Secondary	rergussorraunor conege, rune	Board)	2008	reiteiltage. 92.33%
Secondary	Bharatiya Vidya Bhavan, Pune	Maharashtra State Board	2006	Percentage: 91.73%

Areas Of Interest

- Computer Vision and Graphics
- Parallel Programming and Distributed Computing
- Web Technologies and their applications
- Systems Operating Systems (Network, Security, Concurrency areas, Virtualization), developing scalable systems.

Academic Achievements

- Awarded Dean's Merit List for Excellence in Academics (year 2008-09 and 2009-10).
- Institute Rank 3 (out of 157) Scored a perfect SGPA of 10/10 in three semesters
- All India Rank 765 in the All India Engineering Entrance Examination (AIEEE) 2008 (790,000 candidates)
- Selected for the Indian National Chemistry Olympiad (InChO) 2008.
- Awarded National Talent Search Scholarship (NTSE) 2006 (given by NCERT India to 1000 students).

Current Work

- **BTech Honours in Visual Information Technology**: <u>Undergraduate Honours</u> student under Dr. P.J. Narayanan (Dean, Research) at <u>CVIT</u> Department in IIIT-H.
- **Parallel Image Dithering:** Developing parallel algorithms in OpenCL/CUDA for Image Dithering (have finished an implementation in OpenMP).

Work Experience

- Internship at Fortuity Infotech: Worked on distributed databases. (May 2010)
- Research Assistant (RA): RA for Virtual Labs (a project under Govt. Of India) under Dr. Choppella. The aim is to provide a
 distributed development and collaboration platform for labs across India to host virtual learning environments. (Aug-Dec
 2010)
- System Administrator: Server management and virtual machines administration at IIIT-H. (Oct 2010-Present)

Major Projects			
Project Title	Distributed 3-D Rendering on Cloud	Nov-December 2010	
Faculty Advisor	Dr. Vasudeva Verma		
Technologies used	Apache Hadoop – map-reduce framework, JoGL (Java OpenGL)		
Description Rendering was done by distributing primitives to map tasks and the final da		final data aggregated by	
	Z-buffering on reduce task. <u>The approach was thought of by ourselve</u>	<u>s</u> .	
Project Title	Engine for HDR Image Display using image dithering	May 2010	
Faculty Advisor	Dr. P.J. Narayanan (Professor and Dean(Research) at IIIT-H)		
Description	The engine developed could take as input any flexible schemes (spatial, temporal, spatio-		
	temporal) to display HDR (30-bit) on 24-bit display.		
Project Title	Internship at Fortuity Infotech	May-July 2010	
Reference	Mr. Yaswanth Narvaneni (yaswanth@gmail.com)		
Technologies used	echnologies used PHP (Zend Framework and Doctrine ORM), SQL, Python, MySQL Sandbox (to simulate		

	distributed database servers), Apache Virtual Hosts			
Description	The task was to design database schema and web interface for an online gaming system (involving monetary transactions). It involved using <u>distributed databases</u> .			
Project Title	New mess management portal	October – December 2009		
Faculty Advisor	Prof. Shatrunjay Rawat (Systems Associate Professor at IIIT-H)		
Technologies used	PHP, JavaScript, MySQL			
Description	This portal is <u>operational since 2010</u> at IIIT-H for 2000 users of the mess system. It includes an automated accounting/billing system.			
Minor Projects				
Project Title	Order Independent Texture Synthesis	November 2010		
Faculty Advisor	Dr. P.J. Narayanan (Professor and Dean(Research) at IIIT-H)			
Description	scription Implemented the paper on this topic by Wei and Levoy (2002) and studied various			
	<u>texture synthesis</u> methods.			
Project Title	Upload Plug-in for Drupal CMS	September 2010		
Faculty Advisor	Dr. Venkatesh Choppella (Associate Professor at IIIT-H)			
Description	It allows batch upload of content to Drupal and automatically grants access permissions.			
Project Title	Open-GL like Graphics API Design	February-March 2010		
Faculty Advisor	Dr. P.J. Narayanan (Professor and Dean(Research) at IIIT-H)			
Description	I developed the <i>complete graphics pipeline</i> starting from Object Reference Coordinates to			
	Screen coordinates through the steps of modelling, viewing, pro	ojection and view-port		
	transformations.			
Project Title	Operating Systems Course Project	September 2009		
Faculty Advisor	Dr. Kamalakar Karlapalem (Professor at IIIT-H)			
Description	Implemented Memory Management i.e. LRU Approximation, Page pre-fetching using			
	Operating Systems Project (OSP2), an OS emulator.			
Project Title	Spell Checker for UTF-8 files	April 2009		
Faculty Advisor	Dr. Anoop Namboodri (Assistant Professor at IIIT-H)			
Description	I had used the <u>Damerau-Levenshtein algorithm</u> to suggest correct words for a mistake.			
Tachmical Chill Cat				

Technical Skill Set

Programming Languages C(advanced), C++(advanced), Java(advanced), Scheme (moderate)

Parallel Programming CUDA ,OpenMP

Scripting Languages Python(advanced), Bash(advanced)

Web Technologies HTML, CSS, JavaScript, XML, Ajax, PHP(advanced), Web2Py(advanced)

Operating SystemsGNU/Linux, Windows XP/Vista/7, OpenSolaris(basic)MiscellaneousMySQL, MongoDB, MATLAB, LaTeX, Gimp, Audacity

Extra Curricular Activities

- Website administrator and part of the <u>editing</u> team of <u>Ping</u>, a newsletter in IIIT-H
- <u>Vocalist</u> for the college rock band; interested in classical and alternative rock music.
- Awarded the "Student of the Year" award by NIE (The Times Of India) and "Best All Rounder" in school (2006).
- Adjudged the best speaker during <u>debate</u> competitions at school and active in <u>quizzing at city level</u>.

Relevant Courses Taken

- Computer Vision, Digital Image Processing, Pattern Recognition, Computer Graphics, Digital Signal Analysis and Application, Artificial Intelligence
- Formal Methods, Algorithms, Principles of Programming Languages
- Computer Networks, Cloud Computing, Structured System Analysis and Design: Software Engineering Approach
- Complex Analysis, Vector Spaces, Numerical Analysis, Jeevan Vidhya (A week long course to realize life and self)

Declaration

I hereby declare that the above information is true to the best of my knowledge.

January 2011