

Sayantan Ghosh

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EDUCATION

Year	Degree / Certificate	University / School	CGPA / GRADES
2011	B.Tech & M.Tech(5 Year) Computer Science	IIT Kharagpur	8.84/10
2006	CBSE (Standard XII)	Hem Sheela Model School	90.60 %
2004	ICSE (Standard X)	St. Xavier's School	91.00 %

ACADEMIC PROJECTS / ACHIEVEMENTS

Application of SAT solvers in Cryptanalysis of MD4 hash functions *August, 2008- present*

- Awarded **highest grade** in B.Tech project in both the semesters for finding pseudo-collisions in MD4 hash functions which may **jeopardize its security** in a controlled experiment

DAAD scholar *May-July, 2009*

- Scholarship provided by the German government to support three months internship in German universities

Jagadish Chandra National Science Talent Search Scholar (JBNSTS) *August, 2006- present*

- Scholarship granted to promote student participation in research activities

Branch change to Computer Science and Engineering (**Institute rank 10 out of 840 students**) *August, 2007*

SUMMER INTERNSHIPS

Amazon Development Center, India *June-July, 2010*

- Developed a software as a service to monitor, release and regulate the flow of orders so as to aid **better inventory and supply chain management** in the Ruby on Rails Framework
- Created new **SQL queries** and **optimized** them so as to give the **client better user experience**
- Converted the **warehouse based service** to **zone based service** so as to provide better **scalability** with respect to **addition of new warehouses** and **future company expansion policies**
- The package has been **deployed** to the Production site and is **being used by downstream teams**

University of Karlsruhe, Germany *December, 2008 & May-July, 2009*

- Prepared a detailed report on 3-D Networks-On-Chips highlighting the necessity to mitigate on chip temperature concerns and suggested a run time remapping algorithm incorporating system level adaptivity
- Based on the **report**, the team **created new funded positions** to **initiate** research in 3D chips

University of Karlsruhe, Germany *May-July, 2008*

- Parallelized Motion JPEG, 2000 Decoder for **improved performance** on multiprocessors
- Received **PhD offer** and an **internship during the subsequent winters**

SKILLS

• Packages	• LaTeX, GNU Plot, HTML, MY SQL, Oracle
• Languages	• C, C++, Java, Verilog, Ruby on Rails, PERL
• Platforms	• Windows, Linux

POSITION OF RESPONSIBILITY

SUN Campus Ambassador
(August, 2008 to April, 2009)

- Only student to be selected** among **70 students** of the department of Computer Science and Engineering
- Successfully negotiated** visits of SUN employees on campus to speak in workshops
- Organized the **Sun Code For Freedom talk** at IIT Kharagpur
- Organized a workshop on latest SUN technologies attended by around **150 students from all over India** in **Optima, 2009**, a national level symposium of the Department of Industrial Engineering and Management, IIT Kharagpur
- Organized and hosted** workshops on Java, Netbeans and other open source SUN technologies in collaboration with Kharagpur Linux User group (KLUG)

EXTRA ACADEMIC ACHIEVEMENTS

- Member Sponsorship Team, Bitwise** *2009-2010*
- Captain, Inter Hall Open Soft team**, Patel Hall of Residence *2009-2010*
- Silver** in Inter Hall **Bengali Dramatics** *2007-2008*
- Bronze** in Inter Hall **Open Soft Competition** *2007-2008*