

Sushovan De

A graduate student of the Department of Computer Science and Engineering,
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Objective:

To secure a challenging position as an intern in a research and development focused role.

Academic Achievements:

2008 – present	PhD in Computer Science, Arizona State University	-
2003 – 2007	Bachelor Of Technology in Electronics and ECE, Indian Institute of Technology, Kharagpur	CGPA of 8.27 / 10

Relevant Coursework:

Graduate: Information Retrieval, Mining and Integration; Distributed Multiprocessor Operating Systems; Software Engineering

Undergraduate: Computer Architecture and Operating Systems; Soft Computing Tools in Engineering; VLSI Engineering; Digital Communications; Digital Signal Processing; Electronic Design and Automation; Digital Voice and Picture Communication; Machine Learning and Expert Systems; Information Theory and Coding; Pattern Recognition and Image Understanding; Chaos Theory

Principal Projects:

- "Serial Communication Protocol to Ethernet convertor" - designed and implemented an embedded microprocessor based system to convert and multiplex serial data to Ethernet.
- "H.264 codec development using Cradle MSDP Hardware" – integration and implementation of modules to encode video to H.264 format.
- "Landcover Classification using Damspter-Shafer techniques" – coding and designing in a project to detect land usage type from satellite images.
- "Searching for Music files based on tone signature detection " – design and coding for a fuzzy-logic based software to search for music files based on the tunes.
- "Verilog implementation of a fast modified Booth's Algorithm multiplier".
- "Conoscenza - A library management software based on JSP" - for use in Vinod Gupta School of management, IIT Kharagpur.

Professional Experience:

July 2007 – July 2008: Microsoft India R&D

Software design engineer: Design and Coding in C++ for the Applets and Gadgets group in Windows 7.

May-July 2006: Yahoo Software Development, India

Intern: Coding for a prototype of a new version of Yahoo! Mail that targeted users with relatively older browsers. Achieved an award for exceptional performance.

Nov 2003 - Dec 2006: Innovations Lab, IIT Kharagpur

Active member and Group head of the Java group: implemented a solution to digitize the hall libraries. Implemented a solution for Training and Placement Cell, IIT Kharagpur, which is still being used today.

Programming Languages

- C# (.NET) – over 3 years of active coding
- C / C++ – over 4 years of active coding
- Java – over 5 years of active coding
- PHP and JSP
- SQL and database management
- HTML and JavaScript

Platforms

Windows Vista, XP, 2000; Linux; Solaris

Knowledge of Professional Software

Visual Studio; Matlab; Mathematica; Pspice; Xilinx

Areas of Special Interest

Machine Learning; Artificial Intelligence; Digital Image Processing

Academic Accolades

- Recipient of the prestigious National Talent Search Scholarship, NCERT, New Delhi.
- Recipient of the prestigious Jagadis Bose National Science Talent Search Scholarship.
- Placed in the National top 1% in National Physics Olympiad and qualified for the national level.
- Achieved All India rank 313 in the IIT JEE mains examinations 2003 (All India Rank 152 in the screening test).
- Achieved a state rank of 4th in the AIEEE (All India Engineering Entrance Examination) examination 2003.
- Achieved rank 56 in the West Bengal Engineering Joint Entrance Examinations 2003.