Abhishek Prakash Chaubey

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Present Address
309, Huntington Ave,
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OBJECTIVE

To secure an internship position in Computer Science Research or Software Development in Summer (May-August) 2007.

EDUCATION

- MS leading to PhD in Computer Science — Sept. 2006-Ongoing
  Northeastern University, Boston, USA — GPA: 4.0/4.0
- B.Tech. in Computer Science and Engineering — July 1999- May 2003
  Indian Institute of Technology, Guwahati, India — SPI: 8.75/10.0 (8th Sem)

RESEARCH INTERESTS

- Algorithms & Complexity
- Computer Networks

CURRENT RESEARCH

Currently, I am working with Prof. Ravi Sundaram on various algorithmic stuffs and associated with Network Security and Distributed Computing Research Group at Northeastern University.

WORK EXPERIENCE

Teaching Assistant (Sept 2006-Dec 2006) in Computer Science Department at *Northeastern University, Boston* for CSU690 Algorithms Design.

Senior Software Engineer (Aug 2004-Aug 2006) in SIM Applications at *Pine Labs, New Delhi*
I developed various applications using Java Card APIs and SIM Toolkit (STK) framework for Axalto (now Gemalto after merger with Gemplus). The list includes SIMDate, Abrevi8or, SIMleys, PayPhone & SIMCare. I was also involved in development of Nova, an in-house product which has gone live in various banks in India.

Applications Developer (Oct 2003-Aug 2004) at *Oracle, Hyderabad, India*
I worked in core development of Oracle Apps (Release 11.5.10). I was associated with Order Management Development Team. Order Management Suite is a part of Oracle Applications (Oracle E-Business Suite).

Detailed description of these projects (along with various academic projects & relevant coursework) can be found at http://www.ccs.neu.edu/home/chaubey/workex.html.

COMPUTER SKILLS

- Computer Languages & Tools:
  - Proficient in: C, C++, Java and PL/SQL.
  - Familiar with: JSP, Visual Basic, Lisp, Python, Assembly(x86).

    - Scripting: Perl, JavaScript, UNIX Shell Scripts.
    - Tools: LEX, YACC, Oracle, and Developer 2000, Network Simulator.
    - Oracle Applications and OA Frameworks
- Operating Systems:
    - Linux, Unix, Windows NT/9X/2000/XP.

AWARDS & ACHIEVEMENTS

- *Won Bronze Medal at SIMagine 2006* (Worldwide Mobile Communication & Java Card Developer Contest, sponsored by Sun Microsystems, Samsung & Axalto) at *3GSM World Congress* at *Barcelona* for *SIMSalvage* (A Disaster Information Management Applet).
- *Secured 5th rank in Regional Mathematics Olympiad (RMO)* and appeared in Indian National Mathematics Olympiad (INMO).
- *Selected in Top 10% in Physics Olympiad* conducted by Indian Association of Physics Teachers (IAPT).
- *Selected in MP Science Quiz (Rank 17 in Madhya Pradesh)* and visited Indian Space Research Organization (ISRO), National Aeronautics Limited (NAL), Bhabha Atomic Research Center (BARC) etc. in tour conducted by Govt. of MP and State Institute of Science Education, Jabalpur, India when I was in Xth standard.
- *Awarded Merit cum Means scholarship for 4 consecutive years* (1999-2003) by Indian Institute of Technology (IIT), Guwahati.
- *Selected in IIT Joint Entrance Exam for admission into IITs*, where only 3000 students make out from 1,25,000 candidates & only top few of them make it to the Computer Science Departments of IITs.

B.Tech PROJECT

My final year B.Tech project was titled as *Pseudorandom Bit Generators using Cryptographic Primitives* like pseudorandom functions and pseudorandom permutations**.** I have examined the behavior of some dubious constructions for pseudorandom bit generation. I have developed two new constructions, provably secure and capable of generating longer sequences of pseudorandom bits than the previous ones from the same seed. Here is copy of my report.

SELECTED ACADEMIC PROJECTS

- Term Paper: GSM Security
- Term Paper: Network Flow Algorithms.
- Term Paper: Design of Vector Quantization Tool with a variable codebook size using Lloyd's & LBG algorithm, for speech recognition.
- Design of a Shell for Linux using C++.
- Design and implementation of a 4-bit CPU.
- Enhanced a bare bone Nachos kernel to include support for threads, system calls & virtual memory.
- Compiler for a subset of Pascal using C, Lex and Yacc.

REFERENCES

Available on request