

Shoban Preeth Chandrabose

CONTACT INFORMATION

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EDUCATION

Bachelor of Technology, Aerospace Engineering
Indian Institute of Technology Madras, Chennai
Minor stream: Theoretical Computer Science
CGPA: 7.84/10 [3.14/4]
July, 2008
Higher Secondary
Don Bosco Mat. Hr. Sec. School, Egmore, Chennai
96.92% aggregate
July, 2004
Secondary
Don Bosco Mat. Hr. Sec. School, Egmore, Chennai
91.82% aggregate
July, 2002

PROFESSIONAL EXPERIENCE

- *Member of Tech. Staff*, **Bell Labs Research**, Alcatel-Lucent, India. (Sep 2011 - present)
 - Worked on *Cloud-RAN* project, which explored challenges of moving cellular baseband processing to cloud. A research paper was accepted in ACM MobiCom 2012, and a patent was filed in Indian Patent Office.
 - Working on scaling WAN optimizer middleboxes in cloud. A patent was filed in USPTO, and currently working on a research paper submission.
 - Working on generalized architecture for creating and managing scalable and reliable middleboxes.
- *Software Engineer*, **Bell Labs Ventures**, Alcatel-Lucent, India. (Dec 2008 - Aug 2011)
 - Worked on software platform development of *Alcatel-Lucent 9980 Application Intelligent Network Platform (ALU9980-AINP)*, a revolutionary platform which can host content-transforming applications on the network.
 - Part of the team which won the coveted **Bell Labs President's Award**, which recognizes innovation and technical excellence with business impact.
 - Developed *statistics framework* for ALU9980-AINP to meet industry standards of network flow statistics gathering and reporting, viz. *NetFlow* and *IPFIX*.
 - Developed a *SDK* for ALU9980-AINP to aid third-party developers create applications which can be hosted on the platform.
- *Member of Tech. Staff*, **Veveo**, India. (July 2008 - November 2008)
- *Software Engineer* (intern), **Autodesk**, India. (May 2007 - July 2007)

PUBLICATIONS

- **CloudIQ: A Framework for Processing Base Stations in a Data Center**, *ACM MobiCom 2012*

PATENTS

- **Scaling WAN optimizer middleboxes for the cloud**, *US Patent and Trademark Office* (Status: Filed)
- **Method and apparatus for providing a unified resource view of multiple virtual machines**, *US Patent and Trademark Office* (Status: Filed)
- **Centralized baseband processing of base stations**, *Indian Patent Office* (Status: Filed)

ACADEMIC PROJECTS	<p>Flow around simple shuttle geometry using DSMC: Developed CFD solver¹ which computes flow around simple shuttle-like geometry at high Mach numbers using Direct Simulation Monte Carlo scheme.</p> <p>Othello bot: Designed a bot to play <i>Othello</i> game as a part of Artificial Intelligence course. The bot used $\alpha - \beta$ pruning on <i>Minimax search tree</i> to compute the strategy to play the game.</p> <p>Sparse Memory Graph Search algorithm visualizer: Implemented SMGS² algorithm along with the module to visualize the search as it proceeds to understand the algorithm as part of Artificial Intelligence course.</p>
RELEVANT COURSES	<p>Computability, Logic and Application, Graph Theory, Data Structures and Algorithms, Artificial Intelligence, Computer Networks, Design and Analysis of Algorithms I[†], Machine Learning[†], Linear Algebra, Partial Differential Equations, Vectors Matrices & Diff. Equations, Introduction to Computer Programming Elements of Calculus,</p> <p>[†] indicates courses undertaken in Coursera.</p>
ACHIEVEMENTS AND HONOURS	<ul style="list-style-type: none"> Placed <i>100th in Google CodeJam India 2006</i> conducted for the region of South Asia. Placed <i>2nd in Shaastra Obfuscated Code Contest 2007</i>. Contest involved forward and reverse code obfuscation. Placed <i>National 33rd and Overall 54th in ByteCode 2007</i>, online programming contest conducted by NIT Trichy. Placed <i>4th in Shaastra Programming Contest 2006</i> conducted by IIT Madras. <i>Finalist, Inky Pinky Ponky</i>, Shaastra 2006 conducted by IIT Madras. Event objective was to build a text-classifier.
TECHNICAL SKILLS	<p>Languages: Proficient in C, C++, Python, PHP, and Bash-scripting. Worked with Perl, and Java.</p> <p>OS: GNU/Linux, Windows</p> <p>SCM: Perforce, CVS, Git</p>
RESPONSIBILITIES UNDERTAKEN	<ul style="list-style-type: none"> Member of Core team of twelve responsible for organising Saarang 2008. Responsibilities involved managing and guiding a team of students taking care of <i>Web-Operations</i> aspect of the event. Organized <i>Online Programming Contest</i> of Shaastra 2007. The online event, sponsored by <i>Google</i>, attracted participants from all over the world. <i>Web-Operations</i> coordinator for Shaastra 2006 and Saarang 2007. Was a part of a six member team who designed and developed the websites. Institute Web Operations and Intranet Coordinator 2006-07. Responsibilities involved designing, developing websites and maintaining university bulletin board and students portal.

¹Undergraduate project thesis: <http://sites.google.com/site/shobanpreeth/Home/thesis.pdf?attredirects=0>

²<http://www2.parc.com/isl/members/rzhou/papers/ijcai03.pdf>