

NABEEL FAROOQ BUTT

David R. Cheriton School of Computer Science
University of Waterloo
200 University Avenue West
Waterloo, Ontario, Canada, N2L 3G1
nfbutt [at] cs [dot] uwaterloo [dot] ca
<http://www.cs.uwaterloo.ca/~nfbutt>
(519) 722 - 3197

EDUCATION

University of Waterloo, Waterloo, ON, Canada.
MMaths. in Computer Science. Major in Network and Distributed Systems. Jan 08 - Dec 09

University of Engineering and Technology, Lahore, Pakistan.
B.Sc.(Honors) in Computer Science. Jan 02 - Jan 06

SCHOLARSHIPS AND AWARDS

University Scholarship 2008-2009: University of Waterloo.

One of my papers, "Internet for the Developing World: Offline Internet Access at Modem-speed Dialup Connections", was selected to appear in a compendium of **best papers** from ICTD'07 in a special issue of the ITID Journal.

Our Poor Man's broadband system for the developing-world was featured in the **New Scientist**¹ and the **MIT Technology Review**².

Our Poor Man's Broadband project received funding from the Microsoft Research (MSR) Digital Inclusion Program. This is the **first time** MSR has funded a research project in Pakistan.

EMPLOYMENT

Research Assistant, David R. Cheriton School of Computer Science, University of Waterloo, Waterloo, ON, Canada. Jan 08 - present

Teaching Assistant, David R. Cheriton School of Computer Science, University of Waterloo, Waterloo, ON, Canada. Jan 08 - present

Research Assistant, Dept. of Computer Science, Lahore University of Management Sciences, Lahore, Punjab, Pakistan. Jan 06 - Dec 07

SPECIAL SKILLS

Research

Lead and implemented several research projects. Hands on experience writing raw sockets applications, scripting for network measurements using planetlab framework and releasing source code. Developing simulators for experimentation.

Below is a list of major projects.

Topology-Awareness and Re-optimization Mechanism for Virtual Network Embedding.
University of Waterloo Jan 08 -present

Overlay Containment Routing. Lahore University of Management Sciences Jan 07- Dec 07

¹<http://www.cag.csail.mit.edu/~umar/NS-PMB.pdf>

²<http://www.technologyreview.com/Infotech/21264/?a=f>

Courses

Below is a list of courses I have taken but they don't appear on my transcripts.

Theory of Probability	University of Waterloo	Fall 08
Algorithmic Game Theory	University of Waterloo	Spring 08
Combinatorial Geometry	Lahore University of Management Sciences	Winter 07
Distributed Systems	Lahore University of Management Sciences	Fall 06

Teaching and Teaching Assistantship

Taught and assisted technical courses and senior year courses for computer science students. Trained teaching assistants in undergraduate-level technical courses. Mentored undergrad students. Supervised teaching assistants; coordinated tutoring network for academic support services.

Below is a list of courses I assisted in teaching.

CS 240: Data Structures	University of Waterloo	Spring 09
CS 436: Distributed Systems	University of Waterloo	Winter 09
CS 341: Algorithms	University of Waterloo	Fall 08
CS 240: Data Structures	University of Waterloo	Spring 08
CS 124: Programming Principles	University of Waterloo	Winter 08
Computer Networks	University of Engineering and Technology	Winter 06

Computer Experience

Languages: C, C++, Python, Java, tcl/tk, Ruby

Operating Systems: Linux(Fedora,Ubuntu), OpenBSD, MacOS, Windows(98,XP)

Softwares: Apache, SVN, Network Simulator 2 (NS-2), GT-ITM, Squid, Planetlab

IDE Tools: Eclipse, Emacs, Vim, Kate, JBuilder, MS Visual Studio

PROFESSIONAL AFFILIATIONS

American Mathematical Society

Association of Computing Machinery (ACM)

PUBLICATIONS

Topology-Awareness and Re-optimization Mechanism for Virtual Network Embedding, Butt, N. F., Chowdhury, N. M. M. K., Boutaba, R., To appear *In Proceedings of IFIP Networking 2010*.

A peer-to-peer Internet for the Developing World (best papers from IEEE/ACM ICTD'07), Saif, U., Latif, A., Butt, S. F., Butt, N. F., Murtaza, G., *In Journal of Information Technology and International Development(ITID)*, Vol. 4, No. 2, 2008, MIT Press.

Internet for the Developing World: Offline Internet Access at Modem-speed Dialup Connections, Saif, U., Latif, A., Butt, S. F., Butt, N. F., Murtaza, G., *In Proceedings of the 2nd IEEE/ACM International Conference on Information and Communication Technologies and Development(ICTD)*, Dcember 2007.

Poor Man's Broadband: Peer-to-Peer Dialup Networking, Saif, U., Latif, A., Butt, S. F., Butt, N. F., *In ACM SIGCOMM CCR Journal*, Vol. 37, No. 5, October 2007, ACM Press.