

Saman Barghi

School of Computer Science
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Education

University of Waterloo
Waterloo, ON, Canada

PhD in Computer Science
2009-Present

Concordia University
Montreal, QC, Canada
GPA: 3.98

Master of Computer Science
2007-2009

Sharif University of Technology
Tehran, Iran
GPA: 3.58

Bachelor of Science in Computer Science
2002-2006

Research Interests

- Vehicular Ad hoc Networks
 - Wireless Networks
 - Network Security
 - Overlay and Peer-to-Peer Networks
 - Computer Networks
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Research Experience

University of Waterloo
School of Computer Science
Supervised by *Dr. Pin-Han Ho*
Research field:

- Computer Networks

Research Assistant
2009 - present

Concordia University
Computer Science Department
Supervised by *Dr. Chadi assi*
Research field:

- Vehicular Ad hoc Networks
- Network Security

Research Assistant
2007 - 2009

DML (Digital Media Lab)
Computer Engineering Department,
Sharif University of Technology
Supervised by *Dr. H. R. Rabiee*
Research field:

- Overlay/P2P Networks
- Large-scale Application Layer Multicast networks

Research Assistant
March 2005 - 2007

Publications

- Khoder Shamy, Saman Barghi, Chadi Assi: Efficient rate adaptation with QoS support in wireless networks. *Ad Hoc Networks* 8(1): 119-133 (2010)
- S. Barghi, C. Assi, A. Besnlimane, "Connecting Vehicular Networks to the Internet : A Life Time-based Routing Protocol", submitted to 10th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks
- A. Abdolhosseini Moghadam, S. Barghi, H. R. Rabiee, M. Ghanbari, "A new scheme on recovery from failure in NICE overlay protocol", International Workshop on Peer-to-Peer Information Management, May 29, 2006, Hong Kong. ([Link](#))

- N. Amini, S. Barghi, “A Reliable Way for Implementing Farsi Spell Checker “,” Jahad Daneshgahi Iran (JDIOC)”, 21-23 September-2004, Tehran, Iran.

Awards

- David R. Cheriton Award (2009-2011)
 - Concordia Univeristy Tutiton fee remission Award (Summer 2007- Winter 2008)
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Teaching Experience

Computer Networks and Protocols Computer Science Department, Concordia University	Teacing Assistant Fall 2008
Open Source Concepts (Linux, Perl, Apache, MySQL, PHP) APTECH (http://www.aptech-worldwide.com/)	Instructor Summer 2006
Signals and Systems Department of Computer Engineering, Sharif University of Technology	Teaching Assistant Fall 2005
Java and OOP Programming Department of Computer Engineering, Sharif University of Technology	Teaching Assistant Spring 2005
Computer Networks Department of Computer Engineering, Sharif University of Technology	Teaching Assistant Fall 2004

Professional Experience

ParsOnline http://parsonline.net/	<i>Web developer</i> June 2003-August 2003
<ul style="list-style-type: none"> • Desiged and implemented a traffic shaper panel • Implementing Network gate keeper • Online Store for selling ParsOnline cards using PHP and web services 	
AICTC (Advanced Information and Communication Technology Center) http://www.aictc.com/	<i>Web Developer , Mail Server and Linux Administrator</i> August 2002 - August 2006
<ul style="list-style-type: none"> • Web Developer • Working on Installing and Maintaining Mail Servers such as Sendmail, Qmail, Postfix • Linux and Network Administrator 	

Voluntary Professional Activities

Computer Engineering Department Sharif University of Technology Tehran, Iran	Webmaster Web and Mail server maintenance Fall 2003 - 2007
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Accomplished Academic Projects

- **Optical Network Protocol implementation using C++** (*Design & Analysis of Algorithms, Fall 2008*)
 - Implemented an optimization algorithm to be used in Optical Networks
 - Used Dijkstra and Max-Min heaps for the implementation
 - **Network Manager** (*Network Management course, Winter 2007*)
 - **Secure Email Protocol** (*Network Security Course, Spring 2006*)
 - Implemented a secure protocol for transmitting email messages securely
 - The protocol supported Confidentiality, Integrity and Authentication and no denial and also supported Certificates
 - **HTTP Server using C++** (*Computer Networks Course, Spring 2005*)
 - Support HTTP/1.1 Standards
 - Platform Independent
 - **Designing and Implementing a Spell checker using C++** (*C++ Course, Fall 2003*)
 - Having the ability to find mistakes and give word suggestions
 - Using Soundex, Metaphone and Double Metaphone Algorithms
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Professional Skills

- Programming Languages : C, C++, C#, Java, VC++, Scripting languages (Perl, Unix Shell Scripts)
 - Software : Network simulator tools (Omnetpp, NS2, Opnet), Signal Processing using MATLAB
 - Web Skills: J2EE, PHP, HTML, XHTML, CSS, ASP, Javascript, VBscript, XML, XSLT, Web Services
 - Operating Systems: Linux, BSD, Windows, DOS
 - HDL Programming : VHDL, Verilog HDL
 - Other Skills:
 - Linux Administration
 - Mail Server Administration (Postfix, Qmail, Sendmail)
 - Database Administration (MSSQL, MySQL, PostgreSQL)
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Languages

- Persian (Native)
- English (Fluent)
- French (Fair)
- German (Basic).