

# CURRICULUM VITAE

**Dr. TEJINDER SINGH**

#127/1, Urban Estate,

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## Educational Qualification

B. Sc. (non Medical), MCA (Punjabi University, Campus), Ph. D.

	Degree	Subject	University	Year	Division
1.	M.C.A. (Campus)	Computer Application	Punjabi University, Patiala	1999	1st
2.	Ph.D.	Computer Application	Punjabi University, Patiala	2012	<b>Degree awarded</b>

## Current Job Experience (May 2006 to till date):

Presently I am working as a Senior System Analyst (System Officer-2) in Advanced Centre for Technical Development of Punjabi Language, Literature & Culture (ACTDPL) Punjabi University Patiala.

### a) Research Projects:

Year	Funding Agency	Project	My role	Budget
2009-2010	The Information Society Innovation Fund (ISIF) Grants, Australia	Web based Transliteration and Translation System between Urdu and Hindi Languages	co-Coordinator	US\$ 29,896
2006-2008	Pan Asia Grants, Singapore	Shahmukhi to Gurmukhi Transliteration Solution for Networking	Project Developer	US\$ 30,000

### b) Research Publications:

#### Journals:

1. T S Saini and G S Lehal "Shahmukhi to Gurmukhi Transliteration System: A Corpus based Approach", Research in Computing Science (Mexico), Volume 33, pp. 151-162 (2008).

#### Conference Proceedings:

2. Saini, T. S., Lehal, G. S., and Kalra, V. S. 2008. Shahmukhi to Gurmukhi transliteration system. In 22nd international Conference on Computational Linguistics: Demonstration Papers (Manchester, United Kingdom, August 18 - 22, 2008). Coling: International Conference on Computational Linguistics. Association for Computational Linguistics, Morristown, NJ, 177-180.
3. G. S. Lehal and T. S. Saini, "A Hindi to Urdu Transliteration System", Proceedings of 8th International Conference on Natural Language Processing, pp. 235-240, Kharagpur, India. (2010)

4. Gurpreet Singh Lehal, and Tejinder Singh Saini, "A Transliteration Based Word Segmentation System for Shahmukhi Script", Proceedings of International Conference on Information Systems for Indian Languages, ICISIL 2011, Patiala, Communications in Computer and Information Science, Vol. 139, **Springer-Verlag Berlin Heidelberg**, Germany, pp. 136-143. (2011).
5. Gurpreet Singh Lehal, Tejinder Singh Saini and V. S. Kalra, "Urdu to Hindi and Reverse Transliteration System", Proceedings of International Conference on Information Systems for Indian Languages, ICISIL 2011, Patiala, Communications in Computer and Information Science, Vol. 139, **Springer-Verlag Berlin Heidelberg**, Germany, pp. 305-306. (2011)
6. Tejinder Singh Saini and Gurpreet Singh Lehal, "Word Disambiguation in Shahmukhi to Gurmukhi Transliteration", Proceedings of the 9th Workshop on Asian Language Resources, **IJCNLP 2011, Chiang Mai, Thailand**, pp. 79–87. (2011)
7. Gurpreet Singh Lehal and Tejinder Singh Saini, "Conversion between Scripts of Punjabi: Beyond Simple Transliteration", Proceedings of the COLING 2012: Posters, Mumbai, pp. 633-642. (2012)
8. Gurpreet Singh Lehal and Tejinder Singh Saini, "Development of a Complete Urdu-Hindi Transliteration System", Proceedings of the COLING 2012: Posters, Mumbai, pp. 643-652. (2012)
9. Gurpreet Singh Lehal, Tejinder Singh Saini and Savleen Kaur Chowdhary, "An Omni-Font Gurmukhi to Shahmukhi Transliteration System", Proceedings of the COLING 2012: Demonstration papers, Mumbai, pp. 313-320. (2012)

#### **c) Software and Technologies developed:**

1. **Counseling Software** for B.Ed. 2008, Punjabi University, Patiala
2. **PunjabiKhoj**, Customized Search Engine for Punjabi (Project Developer)  
"www.punjabikhoj.com" (*Released by Sardar Parkash Singh Badal, Hon'ble Chief Minister of Punjab in 2008*)
3. Online **Gurmukhi Unicode Typing Pad**
4. **InPage Text to Unicode Converter**
5. Multimedia enabled **Punjabi (Gurmukhi & Shahmukhi) to English Dictionary**

#### **d) M. Tech, B. Tech and MCA<sup>1</sup>/PGDCA<sup>2</sup> Courses Taught:**

- Introduction to Information Technology (PGDCA)
- Web Technologies(PGDCA)
- XML (B. Tech, MCA)
- Operating System (PGDCA)
- Object Oriented Programming and JAVA (M. Tech, B.Tech, MCA)
- Advanced Java (B. Tech, MCA)
- Red Hat Linux & Unix (PGDCA)
- C and C++ (PGDCA, B. Tech, MCA)
- Web Programming using Microsoft Asp.NET (MCA)

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<sup>1</sup> Department of Computer Science, Punjabi University, Patiala

<sup>2</sup> University Computer Center (Evening Course), Punjabi University, Patiala

### **Work Experience (Nov. 2000 to May2006)**

I was joined as System Analyst (ad hoc) in the department of University Computer Center, Punjabi University Patiala and got a regular appointment on 12/5/2005. I have performed the following responsibilities:

- Teaching MCA, B. Tech. and PGDCA (evening) classes in the Department of Computer Science and University Computer Centre respectively.
- Development and Administration of website [www.universitypunjabi.org](http://www.universitypunjabi.org)
- Smart Search for Entrance Tests Results
- *Administration of the following activities:*
  1. Maintaining LAN, Mail Servers, DNS server and Web Servers.
  2. Configuring and setup of M.R.T.G in the Centre.(Bandwidth Monitoring tool)
  3. Setting up routing between two ISPs and Proxy Servers.
  4. Configuring and setting up e-Mail Virus scanner for University Mail Server.
  5. Installing, configuring and administration of University Firewall.
  6. Result processing and participation with other University entrance tests.
- *Project Guided/Under Guidance:*  
*Online Test Conducted System by. Jaiteg Singh M.C.A. 2004*

### **Teaching Experience (June 2k To Nov. 2k.)**

*College/Institute* : Punjab Institute of Management & Technology (PIMT)  
*Designation* : Lecturer (Permanent-basis)  
*Address* : P.I.M.T. Mandi-Gobindgarh, Punjab.  
*Duration* : June 2k To Nov. 2k.  
*Description* : Teaching MCA and BCA students. In addition to this a web site [www.pimt.org](http://www.pimt.org) of the institute was developed.

### **Professional Experience: (May 1999 to June 2k)**

*Company* M/s Network  
*Branch office* Prestige Chambers, 4th floor, Jalandhar  
*Duration* May' 99 To June' 2k.  
*Details & Responsibilities:* Software consultant. I had successfully completed various projects regarding Web-Site development, and E-commerce applications using HTML, JAVASCRIPT, DHTML CGI-Perl, and ASP.

### **Additional Information**

#### **Computer Literacy:**

*Operating Systems* Windows 7, Vista, XP, WinNT, 2000, 2003 Server and RedHat Linux  
*Language Known* COBOL, PASCAL, C & C++, HTML, DHTML(CSS), JavaScript, CGI-Perl, PHP5, CORE-JAVA, JDBC, **ASP.NET** and XML.

*G.U.I* **Visual Basic 6, VB.NET, C#**  
*RDBMS* **ORACLE7.x, MS SQL Server, MySQL**

**Scholarship:** National Level scholarship in painting from 7<sup>th</sup> to 10<sup>th</sup> standard.

**Personal Details:**

*Father's Name* Late sh. Gurdev Chand Saini

*Date of Birth* October 24th 1973

*Hobbies* Painting

**Country Visited:**

❖ United Kingdom (UK) 2008

DOM: 2/01/2013