Satinderpal Singh

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Experience

2018–2022 **Assistant Professor(CP)/Computer Programmer**, *Guru Nanak Dev Engineering College*, Ludhiana.

2016–2018 **Assistant Professor**, *Dashmesh Khalsa College*, Zirakpur, *Under the management of SGPC*.

2015–2016 **Programmer**, *CSIOM Solutions Pvt. Ltd*, Ludhiana.
Programming and System Administration

Education

2020– **Pursuing Ph.D**, *GKU*, Talwandi Sabo.
Computer Science and Engineering

2013–2015 **M.Tech**, *SGGSWU*, Fatehgarh Sahib, *CGPA 7.10/10*.
Computer Science and Engineering

2009–2013 **B.Tech**, *Guru Nanak Dev Engineering College*, Ludhiana, *66.5%*.
Computer Science and Engineering

2007–2009 **Senior Secondary**, *RDK DAV Model Sr. Sec. School*, Batala, *70.4%*.
PCM

2007 **Matriculation**, *RDK DAV Model Sr. Sec. School*, Batala, *70%*.

Ph.D Synopsis

Title *Deployment of Neural Network for Intrusion Detection in Cybersecurity using Honeypot*

Supervisors Dr. Sunny Arora

Master thesis

Title *Voice dictation system for Punjabi language with cmu-sphinx speech engine*

Supervisors Dr. Vinay Bharadwaj

Description Speech to text dictation system for punjabi language, which could convert human voice to Gurmukhi font by using CMUSphinx engine and cmu-toolkit

Project Done

Office Automation System, TCC GNDEC

Learning Content Management System, GNDEC and schools of NSET

Battlefield Managemt System Application, Indian Army

ERP NSET,GNDEC and NSPS

Sikh Religion Examination(SRE-2022), SGPC

SAML based Single Sign On(SSO), GNDEC

Mail Server, GNDEC

LDAP Authentication Server, GNDEC

ES Examination Proctoring Software, GNDEC

Web Conferece Solution(BBB), GNDEC

Computer Aided Teaching System(CATs), NSPS Gill

Library Management System, Trinity College, Jalandhar

Languages

Language 1	**Punjabi**	*Read & Write*
Language 2	**Hindi**	*Read & Write*
Language 3	**English**	*Read & Write*

Computer skills

Language	C, C++, Python, PHP, Javascript, HTML, Bootstrap, CSS, SASS	Tools	LAMP, ISPCofig, Frappe, ERP-Next, Django, React, Latex
Database	MySql, MariaDB		Drupal, Django, Wordpress, CodeIgnitor
Scripting	Bash, Python	Operating System	Ubuntu, Debian, ElementryOS, Fedora, Redhat, Windows
Server and Firewall	Linux based server Administration, Mail Server, Web Server(Apache, nginx, Nodejs), Firewall Deployment(ufw, pfscense, fail2ban)		

Publications

- Parts of speech tagging for indian languages review and scope for punjabi language, April, 2017
- A Survey on Parts of Speech Tagging for Indian Languages, April, 2017
- An Effective Algorithm for Brick Counting, August, 2018
- Role of Social Media and Computers in Detecting Violation of Human Rights, March, 2018

Interests

Interest 1	Spending time with Inovative minds. Usually spend time with student from differnt institutes and discuss innovative ideas.

Interest 3	Programming and Development
Interest 2	Playing martial art Gatka and Wushu

Software Development/Knowledge

- Develop and manage Dashmesh khalsa college website, student management system and library management system.
- Text to speech system with festival framework for Punjabi language
- IRIS traffic management system
- Office Automation
- Kirt: A salary calculation web app for local business
- Tutor: Online tutor hiring system
- Student Management System

Web Development

- PeasantsB consultants website
- GH construction Website
- Money for lunch website
- Product scrapping script from ebay to majento
- American most trusted constructors website
- Personal websites of many people/firms

Additional Duties at GNDEC

- System Administrator cum Manager(Software Development Centre)
- Member Gurdwara Sahib Committee
- Member Alumni Committee
- Member End Semester Examination Committee

Activities Organized

- Hackathon 1.0 of 3 Days at GNDEC under TEQIP
- Hackathon 1.1 of 3 Days at GNDEC under TEQIP

Guest Lecture as Resource Person

- Latest Trends in Teaching Pedagogy, Layallpur Khalsa College, Jalandhar

Appreciation

- By 68 Armoured Regiment of Indian Army for "Interface App for Battlefield Management System"

References

Name	Designation	Organization	Contact No.
Dr. HS Rai	HoD CE	GNDEC	9855225007
Pf. JS Saini	HoD MCA	GNDEC	9876700810
Dr. Parminder Singh	HoD CSE	GNDEC	9855576176