

KARM VEER SINGH

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Computer Centre, Banaras Hindu University



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Academic Credentials:

Education	Institute	Year	Division
Ph.D.	Department of Computer Engineering. IIT(BHU),Varanasi	2013	
M.S. (Software System)	BITS Pilani, Rajasthan	2003	First Div
B.E. (Computer Engg.)	M. M. M. Engg. College, Gorakhpur	1990	First Div
Intermediate	S.G.R.Intermediate College,Dobhi,Jaunpur	1983	First Div
High School	S.G.R.Intermediate College,Dobhi,Jaunpur	1981	First Div

Title of the Thesis: A Framework for Contextual Semantic Association Based Multimedia Information Retrieval

Sponsored Research Project:

Roll: Co- Investigator

Title: "Computer Aided Design for Selection of Geo-friendly Instruments"

Funding Agency: AICTE, New Delhi under TAPTEC scheme

Year: 2000 - 2002

Status : Completed

List of Publications

Journals:

- (1) K.V. Singh and A. K. Tripathi , "Contextual Query Perfection by Affective Features Based Implicit Contextual Semantic Relevance Feedback in Multimedia Information Retrieval", *IJCSI International Journal of Computer Science Issues*, Vol. 9, Issue 5, No.3, pp.191-202, 2012, ISSN (Online): 1694-0814

- (2) K.V. Singh and A.K. Tripathi, “ Emotion based Contextual Semantic Relevance Feedback in Multimedia Information retrieval”, *International Journal of Computer Applications*, 55(15): 38-49, October 2012, ISSN No. 0975 - 8887

Conferences:

International:

K.V. Singh “Performance Enhancement of Contextual Query Perfection by GMM Based Contextual Semantic Descriptor in Affective Features Based Implicit Contextual Semantic Relevance Feedback”, *International Conference on Artificial Intelligence and Soft Computing (AISC-2012)*, 7-9 December 2012, IIT-BHU Varanasi, India

Workshop:

- (1) Attended International Workshop on Recent Advances in Biometric Systems on 15th -16th April, 2005, I.I.T., Kanpur
- (2) Research Promotion Workshop on Introduction to Graph and Geometric Algorithms 27th -29th January 2010, I.T., B.H.U., Varanasi

Research and development/Industrial/Training Experience

Experience Summary:

Presently I am working as System Engineer in Computer Centre of BHU since march,2011. Prior to this, I have worked as Programmer in VBS Purvanchal University Jaunpur U.P. I have also worked as a Programmer in various companies like Megatech Computer Pvt Ltd., Lumin Infosys Pvt. Ltd. having cross functional experience in verticals like banking, insurance, telecom and textiles.

EMPLOYMENT HISTORY

1) March 2011 - till Date : Computer Centre, Banaras Hindu University, Varanasi

(I) Role: System Engineer

Configuration, Administration, monitoring, optimization of Link Aggregator cum Load Balancer, Security appliance Firewall, Routers, Core Switches, Distribution Switches, etc.

System Administration, configuration, optimization, and customisation of BHU mail services. SPAM prevention, SMTP and Access Log Analysis of BHU mail service.

Squid /Proxy installation, configuration, and optimization. Access Log Analysis of squid and report generation.

Backup and restoration of Systems' / Users' Email data on Network Storage devices.

Administer the system services through operation staff of Computer Centre.

Training Programme to University staff and students, etc.

Technical support and consultancy to University community.

(II) Nodal Officer of IPv6 Transition Team:

Consultancy to IPv6 Ready/compliant networking of University Network.

Significant contributions to purposefully migration of University Network to IPv6 Ready Network. Enhancement of University Network and associated equipments to 10 GBPS within the framework of IPv6 has returned in necessary Tender Proposals and procurement of equipments and softwares.

2) July 1999 - Feb 2011: UNSIET, VBS Purvanchal University, Jaunpur

I have worked as Programmer in VBS Purvanchal University Jaunpur U.P. Nature of duties included conducting Laboratories courses, developed softwares as per University needs, taught UG and PG level courses.

(I) Setting up different types of Instruments, Systems, Computers,etc.:

Hardwares and infrastructures:

Experience in setting up computer center having more than five hundred computers equipped with latest softwares,campus wide Networking through optical fibre cables and Wi-fi enabled internet facilities in class rooms,hostels,offices through five lease lines each having one MBPS capacity.

Experience in installation ,configuration and maintenance of above said computer center having Servers of advance configuration equipped with load balancing software and network operating system,manageable switches, Routers,etc. Experince on setting up hybrid LAN, WAN through structured cable and Directional Antenna, wireless Access Points. NMS setup and configuration.

Operating Systems:

Experience in installation ,configuration and maintenance of WINDOWS NT and WINDOWS 2003 SERVER,ADVANCE LINUX SERVER.

BACKEND: ORACLE,SQL SERVER

Research environment: MATLAB,OPEN GL LIBRARY WITH VISUAL C++.

(II) Conducting laboratories courses

Experience to assist the students of B.Tech. and MCA in designing and developing programmes in various laboratory courses like Software Project lab,Data structure and algorithm,Object oriented programming lab,Network Programming lab , Graphics and Multimedia Lab, Operating System lab, Digital ckt lab, Internet Programming lab, DBMS lab, Microprocessor and embeded system lab.

To assist the students in designing and developing software packages on *.NET Framework, ASP.Net, VISUAL C#, JAVA:J2EE/EJB with frameworks like Struts , WEBSHERE, VISUAL BASIC, VISUAL C++.*

Guided the students in designing, developing and implementing various 2-tier and 3-tier architecture based software projects .

(III) Setting up teaching and research laboratories:

Apart from setting up teaching labs like Network Programming ,Internet programming lab, Operating System ,Graphics and multimedia lab, Microprocessor and embeded system lab I have active participation in setting up Image Processing Lab having MATLAB ,OPEN GL LIBRARIES with VISUAL C++, PROLOG, DIGITAL CAMERAS, VIDEO CAMERAS, FRAME GRABBER CARD, VIDEO CAPTURE CARD, etc.

(IV) Developed laboratory courses:

Experience in designing and developing various laboratory courses of B.Tech. and MCA like Data structure and algorithm,Object oriented programming Languages, Network Programming, Graphics and Multimedia, Operating System, Internet Programming ,DBMS, Software Project.

(V) Role: Project Co-ordinator

KPA's:

- Analyze and model the functionality of Inter-University and Intra-University disciplines and how it is affecting the whole University System.
- Involved in building Content Management System model which manage the large volume of documents , sensitivity and security of documents. It is an MVC architecture based web portal running on Intranet of

University.

- ❑ Involved in designing and developing various modules such as Examination and result management system, Student management system, course management system, library management system, college management system, employee scheduler and management system, etc of University Automation System.

Major Projects Handled

University Automation System

Team size 9

Period 1 year

Description: Web enabled MVC architecture based Intranet application software designed, modeled and developed for automation of functionality of University having more than four hundred affiliated colleges with various disciplines. Various modules are designed and developed for automation of various sections like Academic, Examination, Affiliation, Administration, Planning and Development.

Main modules are Student management, course management, library management, Examination and result management, content management, Administration information management, college management, asset management, employee scheduler, etc.

Environment: EJB, STRUTS, JSP, SERVLET, SWING, XML, DHTML, WEBSHERE, ORACLE

3) Jan 1997 - July 1999 : Lumin Infosys Pvt.Ltd, Mumbai

Role: Team Leader and software developer

KPA's:

- ❑ Setting up model company. Mapping and presentation of business processes.
- ❑ Analyze the customer output behaviours and various campaigns on the output behaviours.
- ❑ Analyze the pre-sale activity and its behaviour to Sales Partner Channel.
- ❑ Building cross sale, up sale models for the Sales Partner Channel and Retail Customers.
- ❑ Building Response model for the various campaigns for Leading Sales Partner Channel and Retail Customers.
- ❑ Involved in designing and developing of various modules.
- ❑ Handling Team of software Developers and report automation team.
- ❑ Providing technical guidance and business knowledge to software developers team.
- ❑ Post-installation, maintenance, support and training to clients.

Major Projects Handled

Trading Manager

Team size 5

Period 6 months

Description: 3-tier architecture base Database management project for trading and distributor company and their Sales channel partners. Main modules are Sales Partner and Retailer management, Billing system, Pricing Planner, Shipping management, Sales Information System, Inventory management, workforce planner, personal, payroll and time scheduler, etc.

Environment: Visual Basic, Crystal Report, ASP, Active X, Oracle.

4) Aug 1995 - Dec 1996 : Megatech Computer Pvt.Ltd, Mumbai

Role: software developer

KPA's:

- ❑ Implementing project plans within pre-set deadlines and budgets.
- ❑ Involved in design and development, coding of various modules and its 3-tier architecture implementation.
- ❑ Involved as developer in preparation of reports with report automation team.
- ❑ Post-installation, maintenance, support and training to clients.

Major Projects Handled

Insurance

Team size 4

Period 4 months

Description: 3-tier architecture base Database management project for a financial service company and their client management system. The project involved structuring and sanitizing the database and building a user interface using various tools

Environment: Visual Basic, Crystal Report, ASP, Active X , Oracle.

5) July 1993 -June 1995 : Sri Enterprises, Mumbai

Role: Sr.Maintenance Engineer

KPA's:

- ❑ Selection, Implementation and maintenance of IT infrastructure i.e. hardware, software, LAN, WAN, Internet, Intranet. Installation, configuration of network operating system, manageable switches, routers, NMS.

6) Oct 1992 -May 1993 : Indo Com Services, Mumbai

Role: Maintenance Engineer

KPA's:

- ❑ Installation, configuration and maintenance of IT infrastructure i.e. hardware, software, LAN, WAN, Internet, Intranet.

Projects Experiences in Software development:**Telecommunications & Information Technology**

- ❑ Software Package developed for Telecom Agency

Textile Technology

- ❑ 3-tier architecture base Database management project for Textile industry containing various modules such as Warping ,sizing, looming management system, employee scheduler, shipping management,, billing system, raw material management system, inventory management system, etc.

Civil and Construction

- ❑ Document management system based project for civil wing containing various modules such as Abstract Quality and cost evaluation, running bill generator, etc.

Biometrics

- ❑ Biometric Control of Access to Privileged Network Resources