Muhammad Idrees
59 Bhatti Colony, Milaad Street,
Link Road, Model Town, Lahore, Pakistan
Ph: +92-300-4345054
Email: **sir.idrees@gmail.com**
URL: **https://sites.google.com/view/siridrees/**

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OBJECTIVE

Willing to accept challenges with a CAN DO attitude. Seeking a position in an institution where my professional skill will be tested at their highest.

KEY POINTS

Earned Ph.D. in Computer Science degree from University of the Punjab University, Lahore. (PUCIT -- 2010 to 2018).

Secured **1st** position in M.Phil. Computer Science in 2010**, 3rd** position in M.Sc. Computer Science in 1995 and **2nd** position in PGD Computer Science in 1993.

Have, **two** Master of Science degrees in Computer Science and Physics.

Have, research papers published in journals and presented in international conferences sponsored by **IEEE,** published in proceedings of conference and searchable in IEEE Explore.

Oracle Certified Professional in Application Development track.

Have, over **12-year experience of software development** for domestic and international clients using the cutting-edge technologies.

Have, over **25-year experience of teaching** courses in fields of Computer Science and Physics as permanent/contractual/visiting faculty member in University of the Punjab.

Taught the following major courses in CS/IT/Physics

Algorithm Analysis	Data Structures	Programming Concepts
OOP using (C#, VB.NET)	OOP using JAVA	OOP using C++
Database Design	Automata Theory	Digital Logic Design
Compiler Construction	Operating Systems	Numerical Analysis
Developer 2000 (OCP)	System Design & Imp.	Advanced Electronics
Enterprise development using Microsoft Technologies (.NET/SQL Server/etc)		

To best of my judgment

- I am fluent in programming dialects like C#, VB.NET, Visual Basic, Oracle Developer 2000, C/C++, Clipper, FoxPro and Turbo Basic.
- I have very good understanding of .NET framework, ASP.NET/VB.NET/C#, MS Access, Oracle and SQL Server, HTML and Active Server Pages, FORTRAN and COBOL.
- I have good hands-on experience of the OPNET Modular and OPNET IT GURU, network modeling and simulation tools.
- I also Extensive exposure of using operating system like Windows XP, Windows 2000 and Red hat Linux. I have necessary knowledge of the administration of Windows Networking.
- I also have good know how of Word Processors, Spreadsheets and Graphics packages and can use designing/miscellaneous tools like Rational Rose, MS Visual Modeler, Visio, Adobe Image Styler and Visual SourceSafe.

EDUCATION[1]	**Ph.D. in Computer Science**

EDUCATION[1]

Ph.D. in Computer Science
From PUCIT, University of the Punjab, Lahore, Pakistan.
*Area of my research is **Visual Programming Languages (VPLs)**. I have developed a framework to facilitate development & use of VPLs.*

M.Phil. in Computer Science (1st position, Grade A, CGPA 3.54/4.00)
From PUCIT, University of the Punjab, Lahore, Pakistan.
*Mainly focused on research in area of **Mobile and Ad-hoc Network**, results in an international conference publication.*

M.Sc. in Computer Science (3rd position, Grade A, Percentage 85)
From University of the Punjab, Lahore, Pakistan.
Focused on design and implementation of theoretical concepts learned in different subjects using C/C++ and VC++ Languages. Final thesis/project is "study and implementation of Data Encryption Standard (DES) algorithm".

PGD in Computer Science (2nd position, Grade A, Percentage 80)
From University of the Punjab, Lahore, Pakistan.
Mainly focused on programming in COBOL, C/C++ and FoxPro.

M.Sc. in Physics (Division 1st, Percentage 75)
From University of the Punjab, Lahore, Pakistan.
Being Digital Electronics as elective subject, focused on Circuit designing and implementation.

PUBLICATIONS

Towards A Universal Framework For Visual Programming Languages
Muhammad Idrees, Faisal Aslam, Khurram Shahzad, Syed Mansoor Sarwar.
Published in *Pakistan Journal of Engineering and Applied Sciences, [S.l.],* Sep. 2018. *ISSN 2415--0584. Available at:*
<https://journal.uet.edu.pk/ojs_old/index.php/pjeas/article/view/1339>. Date accessed: 14 Oct. 2019.

Enhancements in AODV routing using mobility aware agents
Idrees, M., Yousaf, M. M., Jaffry, S.W., Pasha, M.A., Hussain, S.A.
Presented at *IEEE International Conference on Emerging Technologies 2005,* organized by *CASE, Islamabad, Pakistan* held on September 2005.

Using Hand-on Visualizations and Interactions in Formal Languages and Automata (FLA) Theory course with JFLAP
Idrees, M., Ahmed, M.
Presented at *1st National Conference on Trends and Practices of Free and Open Source Software Technologies*, organized by *Punjab University College of Information Technology (PUCIT)*, held on 18 August, 2005.

A Layered Architecture for e-Governance
Pasha, M.A., Farooq, U., Atif, M., Idrees, M
Presented at *National Conference on Information Technology and Applications*, organized by *Balochistan University of Information Technology and Management Sciences, Quetta*, held on 21-22 April, 2005.

Trust Based Resource Selection in Grid Computing
Pasha, M.A., Farooq, U., Idrees, M, Rehman, W. K
Presented at *National Conference on Information Technology and Applications*, organized by *Balochistan University of Information Technology and Management Sciences, Quetta*, held on 21-22 April, 2005.

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[1] Details are available separately with CV

EXPERIENCE

Sep 2008—Date	**PUCIT -- University of the Punjab, Lahore, Pakistan** Assistant Professor Involved in teaching courses to graduate and under graduate students, and performing administrative task assigned by the Principal of College and Punjab University administration including: • Member of Board of Studies, Faculty of Science, Punjab University • Member, Management Committee for Kitab-mela, Punjab University • Degree program coordinator (Software Engineering), PUCIT • Chairman, Security Committee of PUCIT NC • Member, Admission Committee, PUCIT • Chairman, Course revision and development committee, PUCIT • and many more
Aug 2007—Aug 2008	**e-BizSoft Inc, Lahore Office** Sr. Software Engineer Involved in development of a web based, book keeping system, called Transaction Link. Mainly developed pages in ASP.NET, Stored procedures in SQL Server and components for BizTalk server to import/export data using XML.
Apr 2007 – Jul 2007	**Free Lancer** Developed an MS-Access based Examination System for a department of a university.
May 2003 – Mar 2007	**PUCIT -- University of the Punjab, Lahore, Pakistan** Assistant Professor (Visiting/Contract) Involved in teaching courses to graduate and under graduate students, and performing administrative task assigned by the Principal of College. Initially when I was full-time PhD student, I served the college in the capacity of part-time teacher.
May 2003 – Sept 2003	**IBIT -- University of the Punjab, Lahore, Pakistan** Assistant Professor (Contract) Engaged in IT related curricula development activities and teaching. I taught programming and databases courses using Microsoft's cutting-edge technologies like DOT NET framework, SQL 2000 database server and IIS version 6. Also supervised the development of "information system for the different process of institute" like Examination, Admission and Registration for students. These were developed using Oracle Developer 6 with Oracle 8i as back end database.
May 2001—April 2003	**eWorx International (Pvt) Ltd, Lahore, Pakistan** Sr. Software Engineer Involved in development of the MIS for a US based Dental Insurance Company. I play my role in its Analysis, Design, Development and Deployment. Application is developed in latest **Microsoft technologies used for software development** (mainly VB.NET/SQL Server).
July 2000 – April 2001	**Solution (Pvt) Ltd, Lahore, Pakistan** Senior System Analyst Engaged in developing database applications using VB / SQL Server / Oracle8 for local client and using Power Builder and Informix/Sybase for Tetrapak USA.
Oct 99 – Jun 2000	**Department of Computer Science, Punjab University** Full-time but Visiting Faculty Member Served department like a full time faculty member. Took about double work-load of teaching than regular members, established a complete multimedia equipped computer lab running windows NT network, used for hands on training of professional subjects.

Oct 97 – Sept 99	**Islamic Centre, University of the Punjab, Lahore, Pakistan** Member of the Regular Faculty: Involved in teaching, administration of local area network running Novell 3.12 and Windows NT 4 and control of internal examination system.
Mar 94 – Feb 98	**Chartac Business Services, Lahore, Pakistan** Manager IT / System Analyst ***From Oct 97 to Feb 98, I served Chartac as Late hour's employee.*** • Started carrier as programmer then moved to analyst programmer, system analyst, team lead and left service as **MANAGER IT**. • Carried out system analysis, costing, design, scheduling and monitoring of the development and implementation and documentation of various information systems. • Responsible for the training of new staff members and purchasing of computer equipment required by the department. • Responsible for administration and maintenance of Network running NOVELL connecting 12 computers and 50 users. • **Developed** and **Integrated** different financial database systems like accounting, general store inventory, raw material inventory, finished goods inventory, sales, purchase, payroll, provident fund accounting, fixed assets maintenance, shares register maintenance, MIS reports, etc. • The systems are developed in FOXPRO and CLIPPER both for local and international clients of the company.

Part-time/Adhoc Experience

Jun 1998 – Oct 2003	***Knowledge Engineers, Lahore, Pakistan[2]*** *Senior System Analyst (**Free Lancer/Part-time Consultant**) Engaged in development of e-commerce applications using ASP / IIS / SQL Server and Oracle Databases / Visual Interdev / Front Page. Developed a client/server based financial accounting system in **VISUAL BASIC** / SQL Server under windows platform.*
April 99 – Sept 2002	***Stylish Computers, Lahore, Pakistan[1]*** *Consultant (Free Lancer) Provide services in the designing and implementation of various LANs running NOVELL, Windows NT Server, Intranets, Proxy and Mail Servers, etc.*
Oct 94 – Oct 2001	***Dept. of Computer Science, University of the Punjab, Lahore, Pakistan*** *Visiting Member of Faculty: Involved in teaching **Visual Basic** and **Oracle Developer 2000**, **C/C++**, Data Structures, Structured Programming Techniques, and Digital Logic Design. Also taught FoxPro, COBOL, Operating System, Numerical Analysis, Computer Theory and Compiler Construction.*
Jan to Mar96	***Pakistan Cricket Board, Pakistan[3]*** *Team Member of Software Consultants* • *Installation of Novell network and client/server database software.* • *Handling run time statistics and report generation* • *Supervision of word processing facilities provided to media people.*

CERTIFICATIONS	Oracle Certified Professional – Application Developer's track (Developer 2000 release 2.1) Brainbench Certified Professional – Visual Basic version 6 Brainbench Certified Professional – VB Script 5, Java Script Brainbench Certified Professional – HTML 3.12, Active Server Pages Brainbench Certified Professional – C

WORKSHOP (attended)	**Powerful Presentation Workshop** (Nov 2006) Sponsored by Punjab Information Technology Board Government of the Punjab, Pakistan.

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[2] Consultancy Serives in the late hours/Free Lance Services
[3] Deputed by Chartac Business Services

TRAININGS	**Oracle Academic Initiative Program** (Jun 2000) Punjab Information Technology Board, Government of Punjab, Pakistan. *Launched with the collaboration of Oracle Corporation to develop Oracle aware manpower in province of Punjab.* **LAMP workshop** (Oct 2005) Punjab University College of Information Technology *Launched with the collaboration of FOSSFP to develop the in-depth awareness of LAMP (LINUX, Apache, MySQL and PHP) to its faculty members.*

PROJECTS[4]	*For different national and international organizations, banks, schools, etc*

General Store Inventory System	Finished Goods Inventory System
Sales System	Personnel Management System
Payroll System	Provident Funds Accounting System
Share's Management System	Point of Sale System for Pharmacies
Fixed Assets Management System	Purchases System

For different department/institutes of the Universities and Schools/Colleges

Fee Management System	Registration System
Examination System	Admission System

Integration of Project Server and Share Point Server into a dynamic web site developed in .NET technologies for a US based Construction Company.

PERSONAL DATA	Born in December 1968, Pakistani National, Married Male Muslim

REFERENCE	**Dr. Naveed A. Malik** Rector, Virtual University, Lahore, Pakistan Tel: +92(42) 9203113-7, Email: rector@vu.edu.pk **Dr. Mansoor Sarwar** Principal, Punjab University College of IT University of the Punjab, Lahore +92-42-9210969 Fax:92-42-9212505, Email: principal@pucit.edu.pk **Dr. Mujahid Kamran** Rector, University of Lahore Email: kamran_m51@yahoo.com **Mr. Rizwan Mazhar** CEO, eWorx International 5th Floor Al Malik Plaza, 19 Davis Road, Lahore Tel: +92-42-6313841, 6311442, Email: info@eworxintl.com http://www. eworxintl.com, **Mr. Faisal Amin** Director, e-BizSoft Inc 204-C, 2nd Floor City Towers, Gulberg, Lahore Tel: +92-42-5770041, 5770042, Email: faisal.amin@e-bizsoft.com **Mr. Mujahid Eshai** Director, Chartac Business Services, 6-A Ancillary Building, Gulberg Heights, Gulberg II, Lahore, Pakistan Tel: +92-42-5750638 Fax: 5711932, Email: charesh@brain.net.pk

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[4] Details can be furnished on request

EDUCATIONAL DETAILS (MUHAMMAD IDREES)

Sr. No	Institution	Year Attended	Certificate/Degree	Degree Awarding Institute	Passing Year	Obtnd. Marks	Max. Marks	%ge Marks	Div./ Grade	Major Subjects / Projects / Thesis / Distinction
1	Divisional Public School	1983-85	Secondary School Certificate (Matric)	Lahore Boaad	1985	639	850	75	1st	Science Group
2	Govt. College of Science, Lahore	1985-87	Intermediate Certificate (F.Sc.)	Lahore Boaad	1987	615	1100	56	2nd	Pre Engineering
3	Govt. College of Science, Lahore	1987-89	Bachelor of Science (B.Sc.)	University of the Punjab, Lahore	1998	582	800	73	1st	Math A, Math B, Physics
4	Physics Department, University of the Punjab, LHR	1990-92	Bachelor of Science (M.Sc. Physics)	University of the Punjab, Lahore	1992	898	1200	75	1st	Optional Digital Electronic theory and Practical
5	Department of Computer Science, University of the Punjab, LHR	1992-93	Post Graduate Diploma (PGD) in Computer Science	University of the Punjab, Lahore	1993	802	1000	80	A	"Accounting System" developed in FOXPRO. **2nd position in merit**
6	Department of Computer Science, University of the Punjab, LHR	1993-95	Master of Computer Science (MCS)	University of the Punjab, Lahore	1995	1106	1300	85	A	"Study and Implementation of DES" developed in Visual C++ and Installed Shield. **3rd position in merit**
7	PUCIT, University of the Punjab, LHR	2003-05	M.Phil. in Computer Science	University of the Punjab, Lahore	CGPA 3.54 / 4					An International (IEEE sponsored), 3 National conferences publications **1st position in merit**
8	PUCIT, University of the Punjab, LHR	2010-18	Ph.D. in Computer Science	University of the Punjab, Lahore	3.50 / 4.00 CGPA in course work 87 /100 in comprehensive					**Successful public defense/viva held in 2019**