Saira Rizwan

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# Summary of Qualification

Exceptionally well-organized and resourceful Professional with solid academic background in Computer Science; excellent analytical and problem-solving skills, able to handle multiple projects while producing high quality work in a fast-paced, deadline-oriented environment. Self-motivated and an innovative thinker, consistently pursuing new challenges to stretch abilities, expand knowledge, and bring greater returns to employers.

# Education

## Technical

International Islamic University Islamabad Islamabad, PK

Master – Computer Science – MSc 2015-2018

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International Islamic University Islamabad Islamabad, PK

Bachelor – Computer Science – BSc 2013-2015

# Skills

## Technical

* **Platforms:** *Windows NT/2000/XP/7/10, Linux/Unix/Ubuntu*

### Software

**Languages:** C/C++, C#, Java, JavaScript, SQL, HTML/XML/CSS, PHP, Perl

**IDE/Compilers:** MS visual studio, GNU gcc/g++, make/gmake/qmake, Eclipse, NetBean, QT4 designer, Matlab

**Editors**: Gvim, Emacs, Notepad++, Ultraedit, Nedit

**Version Control**: Perforce, Clearcase, Subversion, CVS, GIT

**Applications**: MS Office, Open Office, Adobe Photoshop, CorelDraw, Adobe Dreamweaver

**Technologies**: MFC, STL, Win32 API, OOA/D, Design Pattern, UML, OpenGL, MS Access, MySql

### Administrative

**Misc:** Administration skills to manage multiple activities in time constrained manner Teamwork skills to achieve organizational objectives

Management of stressful situations with professional attitude

**Employment History**

**Jul 2018 to Jan 2019 Receptionist Avanti communications, London**

* Providing a five-star reception services for various clients and visitors
* Greeting up to dozens of clients and visitors in accordance with varying protocols
* Responding all internal and external calls, queries and emails in a professional manner
* Coordinating front desk activities including sorting and distributing correspondence
* Arranging the business meeting rooms and conference rooms for clients professionally

# Experience

## Research and Development

**International Islamic University** Islamabad, PK

Software Development 2009 – 2012

* C++ programs using analysis of algorithms concept.
* Implementation of different C++ programs using analysis of algorithms Concept
* Environment: C++
* The C/C++ with GNU tool chain under Linux OS was used as main development platform.
* OpenGL graphic library

**International Islamic University** Islamabad, PK

Database Application Development 2009– 2012

* Animated Cartoon Application
* A Cartoon app using Visual-graphics concept
* Environment: OpenGL
* Calculator Application
* Implementation of basic functions of a Calculator
* Environment: Programing Fundamentals C++

**International Islamic University** Islamabad, PK

Web Development 2009 – 2012

* Fashion design Web- application
* Environment: HTML, XML, CSS
* Built a banking application for managing the Bank Database.
* Environment: Java, SQL
* Library Database Management System and Application at IIUI
* Environment: Object-Oriented Programming

**International Islamic University** Islamabad, PK

PK FYP (final Year project) 2012 -2013

* Augmented Reality Make Artist Tool.
* By using the augmented reality makeup mirror, you can see live your face after applying makeup on it.
* Camera takes a photo of a user face. It then allows user to scan in the barcode of a specific mascara, foundation, eye shadow, blush, lip-gloss, and so on.
* You can see which color and what makes you look the most gorgeous and how you would look with that makeup applied then pick the same brand from the store. Environment: C shrap

**International Islamic University** Islamabad, PK

Master Thesis 2017 – 2018

* An Adaptive Fuzzy Based Detection and Removal Approach of Impulse Noise from Highly Corrupted Grayscale and Colored Images.
* In this research, used two stage approaches for detection and removal of impulse noise from grey scaled and colored images.
* In detection method, fuzzy membership functions are used to generate fuzzy inference system, which is implemented using the idea of directional statistics and their mean deviations for better detection of noisy pixels from gray scaled and colored images.
* To remove noise from impulse noise an efficient approach of filtering is used where, both the median and directional median filters adaptively used and depends upon the region, which contains the noisy pixels.
* This proposed method based on well-known quantitative measures to obtain simulation results i.e. peak signal to noise ratio (PSNR), mean square error (MSE), and structural**.** Similarity index (SSI) is a method for measuring the similarity between two images.
* These results are shown in form of tables in experimental setup.
* Environment: Matlab 2014(a)

**International Islamic University** Islamabad, PK

Course/Research Project 2016 – 2017

* In Information security, worked on LDA (Linear Discriminant Analysis) and INN (Artificial neural networks) for classification.
* Apply dataset of CI (Cyber information), like data of STIX on LDA and ANN.
* Implementation performed into user-friendly tool as Rapid Miner.

**International Islamic University** Islamabad, PK

2016–2017

Publication:

**Cyber Threat Classification using Tactic Technique Procedure and Cyber Threat Intelligence by Applying Artificial Neural Networks** (Revised May 2015) U. Noor1, O. Maryam2, S. Khan3, S. Kanwal4, S. Bano5, J.Munir6, U. Yaqoob7 1 National University of Science and Technology2, 3, 4, 5, 6, 7 International Islamic University Islamabad, Pakistan

# Education & Certifications

## Technical

* Advanced Computer Architecture
* Advanced Algorithm Analysis and Advanced DBMS
* Theory of Computation and Research Methods
* Advanced Operating System
* Network Security
* Data Mining
* Discrete Structure
* Operating system concept
* Data structure and algorithm
* Introduction to ICT

## Certificates

* Sep-2010: Advanced English Language Course, International Islamic University Islamabad, Pakistan
* Jan-2011: Career trends in computing, International Islamic University Islamabad, Pakistan
* Feb-2016: Lab Internship Program, International Islamic University Islamabad, Pakistan
* May-2016: Mandalay Tool Workshop, International Islamic University Islamabad, Pakistan

# Awards

* Obedient Student Award, Higher Secondary School Sargodha, Pakistan 2006
* Best Student Award, Higher Secondary School Sargodha, Pakistan 2007
* Second position in Mathematics, Girls College Bhalwal, Pakistan 2009

# Interests and Hobbies

* Learning new technologies and reading technical articles
* Traveling and discovering new places

# Languages

* English – Excellent
* Hindi/Urdu – Mother Tongue

# References

* Available on demand