HAFIZ UR RAHMAN

Ph.D (Cyberspace Security, Computer Science, & IT Consultant)

@ hafiz_dir@yahoo.com   hafizdir   Guangzhou University, Guangzhou, Guangdong Province, P. R. China
www.imhafiz.com/   @hafiz_dir   linkedin.com/in/hafiz-ur-rahman-2744a562/
Mobile# +92-345-9139719, +86-155-21009591

EXPERIENCE

- **Research Associate (CyberSpace Security)**, Cyberspace Institute of Advance Technology, Guangzhu, China (September, 2017 - September, 2020)
- **International Conferences Assistant & Session Chair**, (IEEE ISPA/IUCC/SpaCCS, 2017), (IEEE Smart World Congress, 2018), (iSCI, DependSys 2019)
- **Research Assistant** at King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, KSA (September, 2014 - May, 2017)
- **Visiting Teacher** at College of Computer Science and Engineering (KFUPM), KSA (February, 2015 - January, 2017)
- Part-time, **Service Oriented Architecture (SOA) Developer** at College of Computer Science and Engineering, KFUPM (September, 2015 - June, 2016)
- **Visiting Teacher** Islamia College University Peshawar, Pakistan (2012 - 2014)
- **Senior Oracle Database Developer & Software Engineer**, Precise Technolog, Peshawar, Pakistan (July, 2012 Aug, 2013)
- **Software Engineer**, at Tech Track, Deans Trade Center Peshawar Pakistan (January, 2011 - July, 2012)
- **Computerize WAPDA (Water and Power Development Authority), Peshawar**, Government-owned organization of Pakistan (April, 2011); Part-time, **Oracle DBA** at WAPDA during under graduation (February, 2011 December, 2011); **Computerize Hayatabad Model School**, Peshawar Pakistan, Entry Test, Students Enrolment, Exam and HR Section (Oct, 2012)

ACHIEVEMENTS/AWARDS

Excellent Award Prize Winner,
The Silk Road Youth Forum, Beijing, China (May 20, 2020)

Best Poster Award (Asian Universities Alliance Postgraduate Academic Forum, Tisinghua University, Beijing, China, 2018),
'Evaluating CPU Utilization in a Cloud Environment'

Best Paper Award (IEEE-CCF, UIC 2018),
'Performance Evaluation of Hyper visors & The Effect of Virtual CPU on Performance'

Two times nominated for Guangdong Government Outstanding, Researcher Award
Guangzhou University, China (2017 & 2018)

Guangzhou University, China,
Full Time Scholarship for Ph.D Degree, (2017-2020)

King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arab,
Full Time Scholarship for Master Degree, (2014-2017)

Best Programmer Award Winner Being Soft Competition DCS
University of Peshawar, Pakistan (January, 2011)

First Prize winner of Grand Seerat-UN-Nabi (P.B.U.H) Quiz Competition Islamia College University Peshawar, Pakistan
(March, 2011)

Oracle 11g, International Certification through ITECK, KPK Government Sponsorship (June, 2013)

PROFILE SUMMARY

Become an excellent researcher and consultant in my field. I am Research Associate, with more than six years of experience in teaching, research, developing plans, and software development.

Research Interest

Cloud Computing, IoT, Trust, Security & Privacy, Databases, Machine Learning, Operating System, & Software Engineering

EDUCATION

Ph.D (Cyberspace Security)
Guangzhou University, China
📅 Sep 2017 – Sep 2020

Master of Science in Computer Science
King Fahd University of Petroleum & Minerals, Saudia Arabia
📅 Sep 2014 – June 2017

Bachelor of Science in Computer Science
University of Peshawar, Pakistan
📅 Jan 2008 – Dec 2011

STRENGTHS

Professional Skills:
Public Speaking, Cross-Cultural Communication Skills, Project (Team & Administration) Management, Motivator, and Leader

Primary Skills: Cybersecurity, Cloud Computing, IT Consultant, ERP, SOA, Web and Database (Developer & Administrator)

Computer Programming Languages & Tools:
C/ C++, C#, Java, Python, SQL, R, PHP, HTML, JavaScript, CSS, Dreamweaver, Erwin, Rational Rose/UML, Linux Scripting, Matlab, Tensorflow, Maude (Formal Language), Haskell, Lambda Calculus, Minitab, LaText, & verilog (Hardware Programming).

Technologies Administrator and Developer:
Oracle, Microsoft SQL Server & Hypre-V, MySQL, VMware ESXi, and Citrix XenServer

PROJECT'S PROFILE

HMIS 360, Hospital Management System, Peshawar, Pakistan

HMIS 360 is complete solution. It covers all aspect of hospital process. We developed more than 100 reports including complex matrix reports for different modules; Developed user auditing and user security modules; Designed and developed an MIS module for the Chief Executives of the hospital; Human Resource Management including Payroll module; Out Patient Management System (OPD); Laboratory & Radiology modules; Pharmacy Control System, etc., **Technologies:** C # 2010 (Developer), Oracle 11g (Database) ; **Role:** Key role in preparation of project proposal, questionnaire, inception report, SRS, technical documentation, user manual and external design report; **Team Size:** 6; ⌘ https://hmis360.com/

ICS Virtual Lab, King Fahd University of Petroleum & Minerals, KSA

ICS Virtual Lab offers a flexible and fully accommodating virtual lab for students and faculty (approximately 10000 students and faculty). In this project, students access to a 24-hour virtualized environment on any device, on or off campus. We Provides the same performance to students, faculty, and staff no matter what operating system or device theyre using. Instead of installing software on a lab computer or a personal device, applications and data reside in the data center and are accessed remotely. **Technologies:** Citrix hybervisor and Citrix XenDesktop; **Role:** Team Leader, Developer, & administrator; **Team Size:** 3;
⌘ http://www.kfupm.edu.sa/centers/itc/default.aspx

College of Computer and System Engineering (CCSE), KFUPM Information Service Architecture, KSA

Service-oriented architecture (SOA) is an approach used to create an architecture based upon the use of services. We integrated ITC and CCSE data through and SOA and provide Services to CCSE according to their requirements. **Technologies:** Java (Deverloper), Oracle 12c (Database); **Role:** Team Leader, Developer, & Designer; **Team Size:** 7;
⌘ https://bit.ly/2G0PiZ2

Enterprise Resource Planning (ERP), Precise Technology, Pakistan The systems integrate internal and external management information across an entire organization. We Developed Local ERP for medium to large type of Business organization to fulfill all the requirements, including HR, Payroll, Financial Accounting, CRM, and Inventory module. **Technologies:** Oracle 10g (Developer), Oracle 11g (Database) ; **Role:** Database Developer & Designer ; **Team Size:** 5; ⌘ https://www.precisetech.ca/

School/College Management System; Hayat Abad Model School Collage, Peshawar, Pakistan

This is a management system for School & College. It provides all the facilities for the management of School & College such as Entry Test System for fresh Students, Student Enrolment, Examination and result of School & College, Vehicles, HR (Human Resource) etc. **Technologies:** Java (Developer) ; **Role:** I was involved in all phases of database development including front end and backend designing and coding. **Team Size:** 1;
⌘ http://www.imhafiz.com/research-interests.html

Computerization of WAPDA University Town II, Peshawar, Pakistan

The WAPDA of Pakistan has been running in loss for many years due to illegal use of electricity and non-payment of bills by the people. We develop such a Computerize System which can catch these defaulters and reduce the losses of WAPDA which also has the facility to not letting the

HOBBIES & INTERESTS

I really love research, teaching, working with youth, and collaborating with different people from the world. In addition, I am also work in my free time as a volunteer student consultant and guiding international and local students through my blog, online video lectures at Youtube, and website ⌘ https://www.imhafiz.com/ .

LANGUAGES

English	●●●●●
Pushto	●●●●●
Urdu	●●●●○
Arbic	●●●○○
Chinese	●●○○○
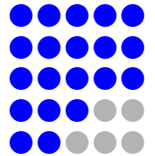
REFEREES

customer to install more than one meter to the same property. **Technologies:** Oracle10g (Developer & Database) ; **Role:** I was involved in analysis, design and customization activities; Worked in Form and Report section and Handling its Problems and Testing. **Team Size:** 3;

🔗 https://bit.ly/3ia5Qee

PUBLICATIONS

📄 Journal Articles

- **Hafiz urRahmaan**, Guojun Wang, Md Zakirul Alam, and Jianer Chen (n.d.). "Trustworthy and Protected data Collection in Sensor-Cloud System: The Case of Home Fire Event Monitoring". In: *Journal of Systems Architecture, IF = 2.5, JCR Q2, CCF-B.*

- **Hafiz urRahmaan** and Md Iftekhar Hussain (n.d.). "Fog-based Semantic Model for Supporting Interoperability in IoT". in: *IET Communications, IF = 2.0, JCR Q2, April 26, 2019.*

- **Hafiz urRahman**, Anwor Ullah and Yulin Wang (n.d.). "A Survey on Text-to-Image, Text-to-Video, and Text-to-Sketch Synthesis using Generative Adversarial Network". In: *Multimedia Tools and Applications, IF = 2.3, JCR Q1, April 10, 2021, Accepted (in press).*

- **Hafiz urRahman**, Guojun Wang, Md Zakirul Alam, and Jianer Chen (n.d.). "In-network Generalized Trustworthy Data Collection for Event Detection in Cyber-Physical Systems". In: *PeerJ Computer Science, IF = 3.09, JCR Q1, May 4, 2021.*

📄 Conference Proceedings

- **Hafiz urRahman**, Guojun Wang, Md Zakirul Alam, and Jianer Chen (2020). "Trustworthy Data Acquisition and Faulty Sensor Detection using Gray Code in Cyber-Physical System". In: *Proceedings of Springer, The 23rd IEEE International Conference on Computational Science and Engineering (IEEE CSE 2020).* Guangzhou, China: Springer.

- Abdul Majid, **Hafiz urRahman, (Corespondence Author)**, Anwar Ullah, and Mehdi Gheisari (2019). "Student Performance Localization Using Android Smartphone". In: *Proceedings of MULTICON-W 2019, International Conference on Intelligent System and Communication Networks 2019) (IC-ISCN 2019).* Mumbai, India: MULTICON.

- Anwar Ullahi, Xinguo Yu, Abdul Majid, and **Hafiz urRahman** (2019). "High-Resolution Realistic Image Synthesis from Text Using Iterative Generative Adversarial Network". In: *PSIVT 2019, The 9th Pacific-Rim Symposium on Image and Video Technology PSIVT 2019.* Sydney, Australia: Springer.

- **Hafiz urRahman**, Guojun Wang, Md Zakirul Alam, and Jianer Chen (2019). "Towards In-network Generalized Trustworthy Data Collection for Trustworthy Cyber Physical Systems". In: *DependSys 2019, The 5th International Conference on Dependability in Sensor, Cloud, and Big Data Systems and Applications (DependSys 2019).* Guangzhou, China: Springer.

- **Hafiz urRahman**, Guojun Wang, Md Zakirul Alam, and Jianer Chin (2019). "Trustworthy Data Collection for Cyber Systems: A Taxonomy and Future Directions". In: *iSCI-2019, The 7th International Conference on Smart City and Informatization (iSCI 2019).* Guangzhou, China: Springer.

- **Hafiz urRahman** (2018). "**Best Poster Award -** Evaluating CPU Utilization in a Cloud Environment". In: *Asian Universities Alliance Postgraduate Academic Forum, Tisinghua University, Beijing, China, 2018).* Beijing, China: Tisinghua University.

- **Hafiz urRahman**, Guojun Wang, Jianer Chen, and Hai Jiang (2018). "**Best Paper Award -** Performance Evaluation of Hyper visors The Effect of Virtual CPU on Performance". In: *Proceedings of IEEE SmartWorld, The 15th IEEE International Conference on Ubiquitous Intelligence and Computing UIC-2018-CCFC.* Guangzhou, China: IEEE.

- **Hafiz urRahman**, Muhammad Arif and Valentina Emilia (2018). "Comparative Analysis of various Image Splicing Algorithms". In: *Proceedings of the 8th International Workshop Soft Computing Applications SOFA-2018*. Arad, Romania: Springer.

- **Hafiz urRahman**, Sadam Al-Azani and Emad Ramadan (2018). "A Survey of Modern Gene Expression based Techniques for Cancer Detection and Diagnosis". In: *Proceedings of the 8th International Workshop Soft Computing Applications SOFA-2018*. Arad, Romania: Springer.

- **Hafiz urRahmaan** Nurzaman Ahmed, Iftekhar Hussain (2016). "Comparison of data aggregation techniques in Internet of Things (IoT)". in: *International Conference on Wireless Communications*, *Signal Processing and Networking (WiSPNET)*. Chennai, India: IEEE.

- **Hafiz urRahman**, Farag Azzedin, Shawahna, and Faisal Sajjad (2016). "Performance evaluation of Virtual Desktop Infrastructure Environment". In: *Sixth International Conference In Innovative Computing Technology (IN-TECH)*. Islamabad, Pakistan: IEEE.