

Syed Muhammad Sheraz

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Personal Profile

- Results-driven, logical and methodical approach to achieving tasks and objectives
- Strong planning, organizing and monitoring abilities

Work Experience & Achievements

- **Lecturer & Researcher** (Nov, 2018 till date)
Department of Software Engineering
NED University of Engineering & Technology,
Karachi, Pakistan
 - Teaching at undergraduate level
 - [CS-353] Microprocessors and Their Applications
 - [CS-451] Parallel Processing
 - [CS-351] Computer Communication Networks
 - [SE-312] Software construction and Development
 - Conduct scientific research in the area of digital infrastructure
- **IT Manager** (July, 2007 to Nov, 2018)
High Performance Computing Centre
NED University of Engineering & Technology,
Karachi, Pakistan
 - **Teaching Experience**
 - Undergraduate level
 - [CS-426] Computer Systems Security
 - [CS-413] Internet Computing
 - **Technical Experience**
 - Managing multiple Beowulf Clusters of different OS like Ubuntu, Debian, Redhat, and Fedora etc.
 - Also perform system administration of Windows Active Directory and Group Policies.
 - Deployment and Management of Virtualization Solutions using VMware, Microsoft, Hyper V, KVM etc.
 - Responsible for managing more than 50 licensed software, installation, troubleshooting the issues, their maintenance and updates.
 - Troubleshooting network problems, providing solutions for removing bugs from systems.
 - Successful installation of Linux through Kickstart Configuration.

- Implementation of Open-LDAP Client Server.
 - Deployment and Management of Linux from Scratch (LFS) systems.
 - Deployment of Cloud using OpenStack in the department. Deployment of Controller, Compute, Network, block nodes, proxy and storage nodes. Launching different instances. Monitoring of instances. Security hardening of the deployed cloud.
- **Associate Software Engineer** (Mar, 2007 – Apr, 2007)
Paperless Technology, Karachi, Pakistan
 - Learn IBM Content Manager Enterprise and IBM Content Manager Ondemand.

System Administration Expertise

- Have more than 12 years of experience in administration of systems with different operating systems.
- Administration of RedHat, Ubuntu, CentOS and Suse Linux including its packages, other software installation, message passing issues and network related problems. In addition to this, disk quota assignment, management and security of installed software plus logging of the software as well.
- Administration of Windows 2003 Server including fileserver, print server and its Active Directory. Management of Quota assigned to users as well as group policies assigned to different users. Management of license servers of software. Security and logging of software installed.
- Installation of XP, Vista and 7 Windows. Troubleshooting their network and system issues. Installation of network-based software and their management.

Technical Expertise

- Programming Languages & Platforms:
 - Shell Scripting
 - Windows 2003 Server, Red Hat Linux, SUSE Linux, Win XP, Windows Vista, Windows 7
- Other Tools:
 - VMWare Virtualization Tools, IBM Content Manager Enterprise, IBM Content Manager Ondemand
- Software:
 - MS SQL Server, MS Office, MATLAB

Education

- Ph.D. (In Progress), Computer Systems Engineering [Energy Efficient and Performance Optimized Design for Data Centers]
- M. Engg., Computer Systems Engineering with CGPA 3.85, NED University of Engineering & Technology, Karachi (June, 2010)
- B.E., Computer and Information Systems Engineering in 1st Division, NED University of Engineering and Technology, Karachi (January, 2007)

Publications

- Syed, Sheraz, Asad Arfeen, Riaz Uddin, and Umaima Haider. "An Analysis of Renewable Energy Usage by Mobile Data Network Operators." *Sustainability* 13, no. 4 (2021): 1886.
- S. M. Sheraz, M. F. Hyder, M. A. Ismail, N. Fouq, and H. Ahmed. Forensic Analysis of Cross-Site Scripting Attacks. 2017 2nd International Conference on Anti-Cyber Crimes (ICACC), 242-246.
- Ahmed H, Ismail MA, Hyder MF, Sheraz SM, Fouq N. Performance comparison of spark clusters configured conventionally and a cloud serviceE. *Procedia Computer Science*. 2016 Jan 1; 82:99-106.
- Syed Muhammad Sheraz, Syed Ali Abbas, Dr. Humera Noor, "Fuzzy Rule Based Traffic Signal Control System for Oversaturated Intersections," *cinc*, vol. 2, pp.162-165, 2009 International Conference on Computational Intelligence and Natural Computing, 2009.