

## **E.R. SONIA**

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### **Seeking Career as Professor – Computer Science/IT with a Reputed University/organization**

#### **SYNOPSIS**

- **A quality-oriented professional with nearly 15 years of Teaching experience with some Core Competencies-**
  - Teaching
  - Course Design
  - Administrative Activities
  - Student Counseling
  - Start-up Operations
  - Research
  - Paper Setting
  - Placements Coordinator
  - Conducting Training
  - Book Publication
- **Meritorious student** throughout schooling and also while getting technical and professional qualifications from university
- **Worked with highly reputed Private Institutions and with various colleges of Delhi University.**
- **Highly disciplined and keen planner** having positive attitude for implementing various motivational schemes. Operational Policies and standards as well as setting-up of new projects from time to time.
- **Voluntarily worked as Internal Faculty** in many institutes for various training and development programs for employees which include all computer subjects, technical subjects, various research concepts and techniques like Agile Software Development Techniques, Security Integration with Agile Methods and Future of Agile Methods etc.
- **Proficiency in handling the administrative activities like training/ seminars and conferences**
- **Good background and fluency in languages.** English & Hindi, have helped in effectively imparting deeper subject knowledge to students with comfort and ease
- **Extraordinary ability to visualize** complexities and give any number of closest resembling live conditions/examples/illustrations to make students understand even the toughest concepts and theories with simplicity.
- **Lot of patience & ability to understand** and handle confusions faced by the pupils has helped in commanding high level of respect & attention from students (internal & external) while taking-up various conventional & non-conventional courses
- **Exemplary skills exhibited** in administrative & organizing capabilities towards maintenance of organizational discipline.
- **Ability to deliver high quality output,** team work spirit & genuine concern for organizational reputation and profitability
- **Acknowledged for developing various paper publications and conference proceedings.**

#### **Academic Details**

- **Ph.D. (Computer Science)** from Delhi University in 2015
- **UGC - NET** for Lecturership with Computer Science in 2012.
- **M.C.A** from IGNOU University in 2007, securing 1st Division.
- **B.Ed.** from CCS University in 2004, securing 1st Division.
- **B.Sc.** with Computer Science from Delhi University in 2003, securing 1st Division
- **Senior Secondary 10+2** from C.B.S.E. Board in 2000, securing 1st Division.
- **Higher Secondary 10th** from C.B.S.E. Board in 1998, securing 1st Division.

#### **Experience**

##### **Total Teaching Experience: 15 Years**

- Assistant Professor, University Of Delhi from 2011 to 2018.
- Computer Science Teacher in Kendriya Vidyalaya from 2004 to 2010

## **Responsibilities Held**

- Contributed by performing a variety of administrative duties, time-table setting, curriculum Planning and implementing operational plans for the upliftment of institution.
- Conducted various quiz competitions, Seminars, Educational programs and conferences.
- Chaired sessions of several conferences and also done paper presentations in many conferences.
- Member of examination department and evaluated answer sheets at central level.

## **Subjects Taught**

DBMS, Operating System, Computer Fundamentals, Digital Electronics, Discrete Structures, Computer Networks, Graphics, Data Structures, Theory of computations, System Programming & Compilers

## **Area of Specialization**

Agile Software Development Methods, Software Security development Techniques, Cloud Computing, Software Engineering, Computer Networks

## **PUBLICATIONS**

- ❖ FISA-XP: An Agile-based Integration of Security Activities with Extreme Programming, ACM SIGSOFT Software Engineering Notes, Volume 39, No. 3, pp. 1-14
- ❖ Analysing Security and Software Requirements using Multi-Layered Iterative Model, International Journal of Computer Science and Information Technologies (IJCSIT), Volume 5, No. 2, pp.1283-1287.
- ❖ Agile Data Collection Tool for computing Agility, International Journal of Emerging Technology and Advanced Engineering (IJETA) Volume 4 , No. 1, pp. 591-598
- ❖ Qualitative and Quantitative Evaluation: Measuring Effectiveness of Security Activities, International Journal of Information Processing (IJIP), Volume 7, No.4, pp. 76-86.
- ❖ Fuzzy Logic Approach for Threat Prioritization in Agile Security Framework using DREAD model, International Journal of Computer Science Issues (IJCSI), Volume 8, Issue 4, No. 1, pp. 182-190.
- ❖ Selection of Security Activities for Integration with Agile Methods after Combining their Agility and Effectiveness, International Journal of Web Applications, Volume 6, No. 2, Pp. 57-67.
- ❖ Measuring Relative Importance of Agility Features Contributing Towards Agility of a Software Process, In Proceedings of Fifth International Conference on Advances in Recent Technologies in Communication and Computing (Elsevier), pp. 201-206
- ❖ An Evaluation Approach: Measuring Effectiveness of Security Activities, In Proceedings of Seventh International Conference on Data mining and Warehousing (Elsevier), pp.202-210.
- ❖ Integration Analysis of Security Activities from the perspective of agility, In Proceedings of International Conference on Agile and Lean software methods (IEEE Computer Society).
- ❖ Development of Agile Security Framework using a Hybrid Technique for Requirements Elicitation, International Conference on Advances in Computing, Communication and Control (Springer), Vol 125, Part1, pp.178-188.

## **SKILL SET**

### **Hard Skills**

- **Projects Undertaken** : Computerized Inventory Control, Times Classifieds
- **Operating Systems Used** : Windows 95/98/2000/XP/2007, UNIX
- **Languages Known** : C++, HTML, PL/SQL, Java, Visual Basic, VB.net
- **RDBMS/GUI/Tools Used** : Matlab, Oracle

### **Soft Skills**

Adaptive, competent, hard working, result oriented with good communication qualities.