AARUSHI SHARMA

Postgraduate
Computer Science and Engineering
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OBJECTIVE

To use my skills and education in achieving creative and useful results as well as enhancing and learning new skills.

WORK EXPERIENCE:-

1) Presently working as coding instructor with Whitehat Jr
(From 08 August 2020-till date)

The primary job responsibility is to make the basic applications and teaching the concepts of computer science. The applications are designed on the platform called as "Code.org". Also, helping the students to design the web pages and websites using the languages like HTML, CSS and basics of Java-script**.**

2) Worked as an ICT teacher in The Indian Public School, Kochi.
(1st May 2017-March 1st 2020)

Roles and Responsibilities:-

- To agree, monitor and evaluate the student progress targets for the classes taught to promote pupil achievement and to make a measurable contribution to the class, faculty and whole school targets.
- To have teaching plans, which contribute positively to the achievement of students you teach and which actively involves all students in its execution.
- To engage all students in your classes in the consistent implementation of schemes of work which encapsulate key learning strategies
- To provide regular feedback for students in a way which recognises good practice and supports their progress against targets and has a tangible and measurable impact on student learning.
- Integrate special lesson plans with core academic curriculum.

3) Worked as GIS Analyst in Haryana Space Application Centre, Gurugram (7th June 2014- 15th February 2017)

Haryana Space Applications Centre (HARSAC), a Nodal Agency of the Department of Science &Technology, Government of Haryana for Remote Sensing (RS) and Geographic Information System (GIS) applications.

Roles and Responsibilities :-

- Able to design an efficient database and develop customize GIS according to client requirement and document all projects, provide support to all projects in coordination with statisticians and subject matter expert.
- Able to perform tests on all enhancements and new releases and provide support to all GIS applications at all times.
- Able to analyze all map information from external sources such as Google Maps and Earth and recommend solutions to special problems of environment as well.
- To analyze all process flow and document all recommendations and solutions and maintain knowledge of all client requirements for business applications.
- To manage all data requests from internal and external sources and perform all metadata
- To prepare various model designs on SQL and Oracle database platforms.
- To prepare documents for all applications and collaborate with developers and ensure incorporation of GIS into various web- based applications.

EDUCATIONAL QUALIFICATIONS

- Passed Bachelors of Education (B.ed) from Arya College of Education, Hisar with an aggregate of 79% in 2020.
- Passed **M.Tech** BRCM College of Engineering, Bahal affiliated from Maharishi Dayanand University with an aggregate of**70%**in 2014
- Passed**Bachelor of Technology** from Maharishi Markandeshwar Engineering College, Mullana(**Maharishi Markandeshwar University**) with **CGPA: 7.78 out of 10**in 2012
- Passed **12th** from Campus School, Hissar (**C.B.S.E Board**) in 2008 with **80.00%.**
- Passed **10th** from Campus School, Hissar(**C.B.S.E Board**) in 2006 with **83.00%.**

TRAINING

- Three weeks IB training on importance of ICT in IB and integrating ICT with different subjects areas like UOI and Maths.
- Training on creating the Multidisciplinary and Transdisciplinary planner and creating connection between different disciplines in IB curriculum
- Six weeks industrial training in **ORACLE 10g** from**NIIT, Delhi** in 2011
- Six weeks industrial training in**CoreJava**from**NIIT, Delhi**in 2010.

PROJECTS

- Completed major project **ERP Solutions** in Core Java.
- Completed minor project **SPIDERS** based on web crawlersin Core Java.

- ## **Modified AODV to detect and prevent wormhole attack:-**

Wireless network refers to a network, in which all the devices communicate without the use of wired connection. Wireless networks are generally implemented with some type of remote information transmission system that uses electromagnetic waves, such as radio waves; for the carrier and this implementation usually takes place at the physical level or "layer" of the network. Mobile ad hoc network is a part of wireless network which is a self-configuring network that is formed automatically by a set of mobile nodes without the help of a fixed infrastructure or centralized management.

Mobile Ad-hoc Network (MANET) is formed by some wireless nodes communicating each other without having any central coordinator to control their function. Such a network is helpful in creating communication between nodes that may not be in line-of-sight and outside wireless transmission range of each other. Similar wireless networks have important applications in a wide range of areas covering from health, environmental control to military systems. In MANET, as the nodes are utilizing open air medium to communicate, they face acute security problems compared to the wired medium. One such critical problem is wormhole attack. Under thisattack, two faraway malicious nodes can collude together using either wired link or directional antenna, to give an impression that they are only one hop away.

PAPERS PUBLISHED

- "A review on attack in manet" published in International Journal of Advanced Research in Computer Science and Software Engineering
- "Modified AODV for Detection and Recovery of Worm Hole Attack" in International Journal Of Engineering And Computer Science ISSN:2319-7242

TECHNICAL SKILLS

- **Language: -** C,C++,Core JAVA, Object Oriented Programming
- **Operating system: -**Linux**,**Windows XP, Vista and Windows 10.
- **Software Used:**- Oracle, Arc GIS

EXTRA CURRICULAR ACTIVITIES

- **Participated** in**ad mad show** organized by Trojan society, M.M.E.C.
- **Participated** in **Treasure Hunt** event organized by Trojan society, M.M.E.C.
- **Participated** in **Technicalquiz contest**organized byZEST society, M.M.E.C

STRENGTHS

- Hardworking
- Team Player
- Willingness to learn
- Positive Attitude
- Adaptability
- Cooperative

HOBBIES

- Reading
- Cooking
- Traveling
- Gardening

PERSONAL PROFILE

- **Father's Name**   Dr. Kamal Dutt Sharma
- **Mother's Name**   Mrs. Sunita Sharma
- **Husband's Name.**   Mr. Mayank Vashishta
- **Date of Birth**   19thJuly, 1991
- **Sex**   Female
- **Marital Status**   Married
- **Languages Known**   English, Hindi
- **Nationality**   Indian

DECLARATION

I hereby affirm that the information furnished above is true to the best of my knowledge and belief.

DATE: January 29; 2021
(AARUSHI)