

Roopa Raphael

Assistant Professor(Guest)
BCA (CT and ISM)
Dept.of Computer Applications
St. Teresa's College(Autonomous)
Ernakulam
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CAREER OBJECTIVE

Passionate about the teaching career where I share my knowledge and experience with students and gain more experience into the education and teaching field..

WORK EXPERIENCE

- Jan 2017- Apr 2018 **Guest Lecturer in Bsc.Cyber Forensics**, at *School of Technology and Applied Sciences, Edapally, Kochi.*
- May 2018- Feb 2019 **Lecturer in Computer Science**, at *St. Claret P.U College, Jalahalli, Bangalore.*
- Jul 2019- Sep 2019 **Guest Lecturer in Computer Applications**, at *Govt.Higher Secondary School for Girls, Ernakulam.*
- Jun 2020- **Assistant Professor(Guest) in BCA(Cloud Computing and Information Security Management)**, at *St.Teresa's College (Autonomous),Ernakulam.*

EDUCATION

- Master of Technology (2014 - 2016) **M.Tech in Computer Science with specialization in Cyber Forensics and Information Security** , *College Of Engineering Kalloppara(CUSAT).*
CGPA: 9.28, 10th Rank- Cochin University of Science and Technology
- Bachelor of Technology (2009 - 2013) **B.Tech in Information Technology**, *Matha College of Technology(MG University).*
Percentage: 72.23%
- Higher Secondary STATE (2009) **St.Mary's C.G.H.S.S, Ernakulam .**
Percentage : 92.83%.
- Secondary STATE (2007) **St.Teresa's C.G.H.S.S Ernakulam.**
Percentage : 86%

RESEARCH INTERESTS

Cyber Forensics, Information Security, Operating Systems, Big Data, Hadoop, Penetration Testing.

PROJECTS

- July 2015- May 2016 **BIG DATA ANALYTICS FOR DDOS DETECTION USING HADOOP**

Environment *Hadoop, Java*

Description This project is a forensic detection tool for Distributed Denial of Service (DDOS) attack from Big Data. It enables law enforcement officers, forensic investigators, corporate firms as well as any one who becomes a victim of DDOS attack that can potentially harm, their website or server from getting overloaded or breakdown temporarily or permanently.

Sep 2012- Feb 2013 **FLC based fingerprint matching algorithm using Java**

Environment *Android SDK, Java*

Description This project developed a Mobile Finger print authentication system application in Android.

Jan 2011- Mar 2012 **Online Blood and Organ Donation community Website.**

Environment *.net*

Description The project developed a website for online organ and blood donation organization that with the help of Global Positioning System located the nearest blood bank, blood and organ donors, shortest route maps to reach them etc.

M.Tech Seminar **Data Provenance: A better way for providing provenance for data in Cloud**

B.Tech Seminar **BRAIN GATE a computer controlled chip enabling human actions just by thoughts.**

PUBLICATIONS

March 2016 Roopa Raphael ,Raj Kumar T, " BIG DATA, RDBMS and HADOOP- A Comparative Study", International Journal of Science and Research (IJSR), Volume no: 5, Issue no: 3, Paper Id: NOV162167

COMPUTER SKILLS

Operating Systems Ubuntu 14.04, Microsoft Windows(10/8/7/XP), Kali Linux

Programming and Tools Hadoop, EnCase, Forensics ToolKit, ProDiscover, Nmap, VMware Workstation, Python, C, C++, Java,Virtual Box,Visual Studio,Nessus, Metasploit, Wireshark, VMware, LaTeX.

CONFERENCES/TRAINING

- Successfully completed one week FDP on “Capacity building in drafting Proposals for Funded Research” organized by Guru Angad Dev Teaching Learning Centre under MHRD and St. Teresa’s College (Autonomous),Ernakulam (October 2020).
- Attnded FDP on "How teachers can make a difference" organized by Teaching Learning Centre, IIT Madras (August 2020).
- A workshop on Big Data and Hadoop conducted by Open Source India 2015 from NIMHANS Convention Centre,Bangalore.
- IBM Bluemix workshop conducted by Open Source India 2015.
- A seminar on Cloud Computing conducted by Open Source India 2015.

- A workshop on Cyber Forensics by world renowned information security expert Manu Zacharia (2015).
- A workshop on Penetration Testing by Manu Zacharia (2016).

VOLUNTEERING

ISRA An active member of Information Security Research Association. Played a major role in conducting workshops in Penetration Testing , Crypto Treasure Hunt, Technical sessions, etc.

Activities Representative of TROP(Teresian Rural Outreach Program) for Kuzhuppilly Panchayat.

Department incharge of Website Content Editing, St. Teresa's College.

Organized a session on "Hackers and Engineers" for the students of BCA(CT and ISM).

Executive Member of Tech Fest organizing committee in college.

Active member of Event Organizing committee in MCT Engineering Collge.

Active participant in sports and arts club activities at school and college.

Active participant of youth festivals and Science exhibitions at district level both in school and college.

ACADEMIC AND CO-CURRICULAR ACHIEVEMENTS

- Papers published : 1
BIGDATA,RDBMS and HADOOP- A Comparitive Study (International Journal for Science and Research, volume 5 issue 3)
- Secured first position in Hindi essay writing at district level.
- Secured third position in C.V. Raman essay writing at district level.
- Secured third position in working model on Drip Irrigation at zonal level.
- Actively participated in various sports activities for ICSE inter school competitions at state level.

SKILL SET

- Confident
- Excellent communication skills
- Excellent interpersonal skills
- Patience
- Keen observer
- Good listener

DECLARATION

I do hereby declare that the above information is true to the best of my knowledge and I am confident that I can adapt to any situation and can do my best by contributing the maximum efforts for the progress of the organization.

Roopa Raphael