Sangeeta Kakati

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EDUCATION

Indian Institute of Information Technology Guwahati, India
Master of Technology in Computer Science *Expected May 2022*
- CGPA: 8.70

Central Institute of Technology Kokrajhar, Assam
Bachelor of Technology in Information Technology *2016-2020*
- CGPA: 9.12

Kendriya Vidyalaya Barpeta, Assam
AISSCE (Class 12) *2014-2016*
- Percentage: 84.6

Kendriya Vidyalaya Barpeta, Assam
AISSE (Class 10) *2014*
- CGPA: 10
- Merit Certificate

EXPERIENCE

Research Intern May-July 2021
Indian Institute of Information Technology(IIIT) *Guwahati, India*
- Secure Multiparty Authentication without trusted third party
- Tool Used: AVISPA

Research Intern June-July 2019
Indian Institute of Technology(IIT) *Assam, India*
- Research on Security in Internet of Things by dividing it into three security aspects Authentication, Authorization and Access Control

Software Intern January 2019
Indian Oil Coorporation Limited *Assam, India*
- Application for fetching semester results of an institute

PROJECTS

Mobility aware task-offloading in fog assisted networks | *IoT, Cloud, Fog, Edge* June 2021 – Present
- Optimal offloading mechanism for mobile end-users in distributed systems
- Performing migration in services with long term analysis(vehicular services)
- We attempt to minimize the case of migration by doing offloading until it is an essential requisite to perform migration(Since migration incurs some extra cost)
- Implementation: SUMO mobility, MobFogSim,iFogSim

IoT based automated outdoor lighting system | *IoT, Android, Sensors* July 2019- February 2020
- Objective was to enhance the maintenance of the current outdoor lighting systems
- Used Thinkspeak as the cloud server to send sensor's data
- Integrated IR, LDR, Current Sensors to detect presence of obstacle, light
- Detection of faulty lights and real-time display in an android application

Other short hand projects
- Face recognition using Python
- Background subtraction and object detection
- Guest house reservation system
- Face mask detector with OpenCV Python
- Home automation systems

Publications & Achievement

- Paper entitled *Survey on Recent Malware Detection Techniques for IoT* accepted and presented in International conference on machine intelligence and signal processing(MISP 2021), Book Series Lecture notes in Electrical Engineering
- Paper termed *Computational offloading in edge/fog based IoT environments* in International Conference on Intelligent Technologies (CONIT 2022))
- Book chapter entitled *Green Cloud Computing for IoT based Smart Applications* accepted in GMCC 2021 : Green mobile cloud computing
- Paper termed *Cloud and Fog computing based Industrial IoT production management* in International Conference on Intelligent Technologies (CONIT 2022))
- Best pitch presenter in the NorthEast Hackathon 2019
- Certificate of merit for securing 10 CGPA in All India Secondary School Examination(AISSE)
- Among top 100 performers in C test , conducted remotely from IIT Bombay with course material provided by the Talk To Teacher project

Technical Skills

Languages: C, Python, C++
Areas of Interest: Cloud/Fog/Edge Computing, IoT
Frameworks: MobFogSim, iFogSim, AVISPA, Netsim, Thinkspeak
Databases: MySQL
Skills: Wireless Mobility, Task Offloading, Migration

Extra-curricular activities

Mentoring: Workshops under ACM Student chapter, Mentored four UG students
Other activities: Musical instruments (Guitar, Ukulele)
Art: Calligraphic Arts