

Sangeeta Kakati

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EDUCATION

University of Luxembourg <i>Doctoral Researcher</i>	Luxembourg <i>Present position</i>
Indian Institute of Information Technology <i>Master of Technology in Computer Science</i> <ul style="list-style-type: none">CGPA: 8.78	Guwahati, India <i>May 2022</i>
Central Institute of Technology <i>Bachelor of Technology in Information Technology</i> <ul style="list-style-type: none">CGPA: 9.12	Kokrajhar, India <i>2016-2020</i>
Kendriya Vidyalaya <i>AISSCE (Class 12)</i> <ul style="list-style-type: none">Percentage: 84.6	Barpeta, Assam <i>2014-2016</i>
Kendriya Vidyalaya <i>AISSE (Class 10)</i> <ul style="list-style-type: none">CGPA: 10Merit Certificate	Barpeta, Assam <i>2014</i>

EXPERIENCE

Research Intern <i>Indian Institute of Information Technology(IIT)</i> <ul style="list-style-type: none">Secure Multiparty Authentication without trusted third partyTool Used: AVISPA	May-July 2021 <i>Guwahati, India</i>
Research Intern <i>Indian Institute of Technology(IIT)</i> <ul style="list-style-type: none">Research on Security in Internet of Things by dividing it into three security aspects Authentication, Authorization and Access Control	June-July 2019 <i>Assam, India</i>
Software Intern <i>Indian Oil Corporation Limited</i> <ul style="list-style-type: none">Application for fetching semester results of an institute	January 2019 <i>Assam, India</i>

PROJECTS

Mobility aware task-offloading in fog assisted networks <i>IoT, Cloud, Fog, Edge</i> <ul style="list-style-type: none">Optimal offloading mechanism for mobile end-users in distributed systemsPerforming migration in services with long term analysis(vehicular services)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	July 2021 – May 2022
IoT based automated outdoor lighting system <i>IoT, Android, Sensors</i> <ul style="list-style-type: none">Objective was to enhance the maintenance of the current outdoor lighting systemsUsed ThinkSpeak as the cloud server to send sensor's dataIntegrated IR, LDR, Current Sensors to detect presence of obstacle, lightDetection of faulty lights and real-time display in an android application	July 2019- February 2020
Other short hand projects <ul style="list-style-type: none">Face recognition using PythonBackground subtraction and object detectionGuest house reservation systemFace mask detector with OpenCV PythonHome automation systems	

PUBLICATIONS & ACHIEVEMENT

- Paper entitled *Mobility-aware Task Offloading in Fog-Assisted Networks* presented in IEEE GLOBECOM 2022.
- Kakati, S., Ray, K., Deka, R. (2022, June). Cloud and Fog Computing based Industrial IoT Production Management. In 2022 2nd International Conference on Intelligent Technologies (CONIT) (pp. 1-5). IEEE.
- Kakati, S., Chouhan, D., Nag, A., Panja, S. (2022). Survey on Recent Malware Detection Techniques for IoT. In Pattern Recognition and Data Analysis with Applications (pp. 647-659). Springer, Singapore.
- Kakati, S., Deka, R. (2022, June). Computational and Adaptive Offloading in Edge/Fog based IoT environments. In 2022 2nd International Conference on Intelligent Technologies (CONIT) (pp. 1-6). IEEE.
- Kakati, S., Mazumdar, N., Nag, A. (2022). Green Cloud Computing for IoT Based Smart Applications. In Green Mobile Cloud Computing (pp. 201-212). Springer, Cham.
- 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, C++, Python, Rust

Areas of Interest: Cloud/Fog/Edge Computing, IoT

Frameworks: MobFogSim, iFogSim, AVISPA, Netsim, Thinkspeak

Databases: MySQL, MongoDB

Skills: Programming, Wireless Mobility, Task Offloading, Migration

EXTRA-CURRICULAR ACTIVITIES

Tutor : Python and C++ Tutor, 2021

Mentoring: Workshops under ACM Student chapter, Mentored four UG students

Other activities: Musical instruments (Guitar, Ukulele)

Art: Calligraphic Arts