

MD LUTFAR RAHMAN

Research Assistant and Doctoral Candidate at University of Memphis

@ md.lutfar.rahman.cs@gmail.com

+1-901-273-4019

in linkedin.com/in/milubuet

milu-buet.github.io/profile

EDUCATION

- University of Memphis, Tennessee, USA Ph.D. in Computer Science (Dec, 2021)
CGPA: 3.98/4.00
Research: Security in cloud computing, computational complexity.
- Bangladesh University of Engineering and Technology, Bangladesh B.Sc. in Computer Science and Engineering (2013)

EXPERIENCE

Graduate Assistant (2016-Now) at University of Memphis.

- Researched on security vulnerabilities in virtual machine live migration using OpenStack.
- Resolved the algorithmic complexity of certain games on boolean formulas

Senior Software Engineer (2014-2016) at AppDragon UK.

- Full stack engineer for a healthcare management web service.
- Lead a team of three people for a non-blocking bulk web messaging service, which addresses scalability issues.
- Improved the architecture of email to sms service to accommodate 20% larger load.

Software Engineer (2013-2014) at Commlink Info Tech Ltd.

- Developed an E-commerce web service.
- Worked on Simple Network Management Protocol for remote device management.
- Researched and developed the network management software for Bangla-Phone's network in Bangladesh.
- Developed a call monitoring web service in Asterisk SIP for Bangla-Phone.

SKILLS

- Full Stack engineer.
- Proficient in Python, Java, C, C++, Javascript, Latex.
- Experienced in MySQL, PostgreSQL.
- Research experience in cloud: Docker, AWS, Azure and, OpenStack.

ACHIEVEMENTS

- May, 2020: Paper published in LATIN 2020: Tractable Unordered 3-CNF Games.
- Jan, 2020: Paper published in CCWC 2020: Shamir's Secret Sharing for Authentication without Reconstructing Password.
- Dec, 2018: Paper published in ISAAC 2018: Complexity of Unordered CNF Games.
- May, 2018: Awarded outstanding research on 14th Annual CS Research Day at University of Memphis.
- Aug, 2017: Paper published in IC3 2017: Secure live virtual machine migration through runtime monitors.
- May, 2017: Top projects (Rent-a-bike) in Foundations of Software Engineering at University of Memphis.

ACTIVITIES

- Github: github.com/milu-buet
- Leetcode: leetcode.com/milu_buet (Solved: 500+ problems)
- Vice-president: Bangladesh Students' Association, University of Memphis (2018-2019).

PROJECTS

- Network Management Software [Java, Hibernnet, SNMP, MIB] : Visualize and monitor network status.
- Call Monitor [Python, Django, Asterisk SIP] : Design robot call and monitor phone calls.
- Doradory [Python, Django, MySQL] : Auction based online shop in Bangladesh.
- SmartMed [Python, Django, RabbitMQ-Celery, PostgreSQL] : Healthcare management web service.
- SmartMessage [Python, Tornado, SQLAlchemy, RabbitMQ-Celery, SMS gateway] : Bulk web messaging service.
- Email2SMS [Python, Django, Mail server, SMS gateway, PostgreSQL] : Read an email and send it as SMS.