MD LUTFAR RAHMAN

Research Assistant and Doctoral Candidate at University of Memphis

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EDUCATION

- **University of Memphis, Tennessee, USA**   **Ph.D. in Computer Science** (May, 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**, Contest rating: **1899**)
- **Vice-president**: Bangladesh Students' Association, University of Memphis (2018-2019).

PROJECTS

- **Network Management Software [Java, Hibernet, 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.