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 Theoretical Computer Science** (May, 2020)
  CGPA: **3.98/4.00** (**Defended dissertation proposal**)
  Research: Computational complexity of games. (One **top conference** publication)
- **Bangladesh University of Engineering and Technology, Bangladesh**   **B.Sc. in Computer Science and Engineering** (2013)

EXPERIENCE

- **Software Engineer** (2013-2014) at **Commlink Info Tech Ltd., Dhaka, Bangladesh**.
  - Developed an E-commerce online shop. I developed the admin module and the **payment system**.
  - Got trained on **SNMP** from China for remote device management.
  - I researched and initiated the network management software development for Bangla-Phone's network in Bangladesh.
  - Developed a call monitoring software in **Asterisk SIP** for Bangla-Phone.
- **Senior Software Engineer** (2014-2016) at **ZS Solutions Ltd., Dhaka, Bangladesh**.
  - Developed, deployed, and managed a **healthcare management** website. Used **trello** and **git issue tracker**.
  - Closely worked with the clients to meet their requirements in the project.
  - Worked in two interdependent **web-messaging** servers. I managed communications between the two teams.
  - Achievement: Introduced and enforced **unite testing** and automated **functional testing** with selenium.
- **Graduate Assistant** (2016-Now) at **University of Memphis, Tennessee, USA**.
  - Worked as a **Teaching Assistant** for the course **Computer Architecture and Organization**.
  - Used **OpenStack** for the research experiment on security vulnerabilities in **virtual machine live migration**.
  - Stood **second** in oral presentation on **14th Annual CS Research Day** at University of Memphis.
  - Got two **PSPACE-completeness** results on the games on boolean formula.

TECHNICAL SKILLS

- **Programming Languages**: Python, Java, C/C++, Ruby, JavaScript, .
- **DBMS**: MySQL, PostgreSQL, OracleSQL.
- **Web Frameworks**: Django, Tornado, Ruby-on-Rails, .
- **Web Servers**: Nginx, Apache.
- **Operating Systems**: Linux, Mac OSX, Windows .
- Pyspark, Hadoop, Docker, OpenStack, AWS, Azure, GIT.

ACTIVITIES

- **Github**: github.com/milu-buet
- **Leetcode**: leetcode.com/milu_buet (Solved: **400+ problems**, Contest rating: **1859**)
- Paper published in **IC3 2017**: Secure live virtual machine migration through runtime monitors.
- Paper published in **ISAAC 2018**: Complexity of Unordered CNF Games. (**Top Conference**)

PROJECTS

- **SmartMed**[Python, Django]
  - Healthcare management website.
- **Doradory**[Python, Django]
  - Amazon like online shop in Bangladesh.
- **SmartMessage**[Python, Tornado, SMS gateway]
  - Asynchronous web messaging application for bulk SMS
- **Email2SMS**[Django Mail server, SMS gateway]
  - Read an email and send it as SMS.
- **RoadSafety.**[Django, GoogleMap API]
  - Mark risky roads in google map and alert users nearby.
- **Twitter Sentiment Analysis**[Pandas, scikit-learn]
  - Classify if a text has positive or negative emotion.