# Mohammed Latif Siddiq

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## EDUCATION

**UNIVERSITY OF NOTRE DAME**
PH.D. IN COMPUTER SCIENCE
Ongoing | Notre Dame, IN USA
Running CGPA: 3.834/4.00

**BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY**
BS IN COMPUTER SCIENCE
Feb 2021 | Dhaka, Bangladesh
CGPA: 3.46/4.00

## SOCIAL LINKS

linkedIn.com/in/ lsiddiqsunny
github.com/ lsiddiqsunny

## COURSEWORK

**Graduate**
Secure Software Engineering • Advanced Machine Learning • Data Science
**Undergraduate**
Computer Security • Fault Tolerant Systems • Introduction to Bioinformatics • Machine Learning • Pattern Recognition

## SKILLS

**Technical**
Java • C • C++ • Python • Matlab • Shell
**Database**
Oracle • MySQL • SQLite • MongoDB
**OS Experience**
Ubuntu 20.04 (Personal) • CentOS 7/RedHat • Mac OS Monterey • Windows
**Version Control**
Git(GitHub, Bitbucket, Gitlab) • TFS(Azure DevOps)
**Frameworks**
Vue.Js • JSP • Flutter • JavaFX • Node.js • Django • Java servlet
**Web Technology**
HTML • CSS • Rest API • JSON • XML
**Cloud**
EC2 • S3 Bucket • Azure
**Technical Writing**
LaTeX• Beamer • Overleaf
**Other**
Google Apps Script • Software Defined Networking • PyTorch • OpenGL • Weka • Mininet • NS2 • IBM WALA

## EXPERIENCE

**UNIVERSITY OF NOTRE DAME** | GRADUATE ASSISTANT
January 2022 - Present | Notre Dame, IN USA

- Working as a teaching assistant by holding office hours and grading solutions.
- Designing and executing research in the intersection of secure software engineering and applied machine learning.

**REVE SYSTEMS** | JUNIOR SOFTWARE ENGINEER
March 2021 - November 2021 | Dhaka, Bangladesh

- Developing enterprise software for Bangladesh Parliament Secretariat.
- **Tech stack**: Java servlet, JSP and MySQL.

## PUBLICATION

*SecurityEval Dataset: Mining Vulnerability Examples to Evaluate Machine Learning-Based Code Generation Techniques*, **Mohammed Latif Siddiq**, and Joanna C. S. Santos, $1^{st}$ **Intl. Workshop on Mining Software Repositories Applications for Privacy and Security**

*An Empirical Study of Code Smells in Transformer-based Code Generation Techniques*, **Mohammed Latif Siddiq**, Shafayat Hossain Majumder, Maisha Rahman Mim, Sourov Jajodia, and Joanna C. S. Santos, $22^{nd}$ **IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM 2022)**

*BERT-Based GitHub Issue Report Classification*, **Mohammed Latif Siddiq**, and Joanna C. S. Santos, $1^{st}$ **Intl. Workshop on Natural Language-based Software Engineering**

*SQLIFIX: Learning Based Approach to Fix SQL Injection Vulnerabilities in Source Code*, **Mohammed Latif Siddiq***, Md. Rezwanur Rahman Jahin*, Mohammad Rafid Ul Islam, Rifat Shahriyar, and Anindya Iqbal, $28^{th}$ **IEEE International Conference on Software Analysis, Evolution, and Re-engineering (SANER 2021)** (*Equal contribution)

## RESEARCH PROJECTS

**Telemedicine Sectors in Bangladesh** | *User-Centric Design, Human-Computer Interaction, Survey* | *September 2021*

**Detecting Security Bugs in GitHub Codes from the IoT Domain** | *Python, Deep Learning, GHTorrent* | *July 2021*

**Online Text Clustering for MOOCs** | *Python, Deep Learning, Online Algorithm, Django, Nuxt* | *April 2021*

**Bangla Image Captioning Captured by Blind People** | *Keras, TensorFlow, Python, AWS* | *December 2020*

**Detecting Number of TCP and UDP Flows in SDN by ML** | *Machine Learning, Networking SDN, OpenFlow Protocol, Mininet, IPERF, Weka* | *November 2020*

## RECOGNITIONS

| | | |
|---|---|---|
| 2022 | | NSF Travel Grants for ICSE 2022 |
| 2022 | | Melchor Fellowship |
| 2021 | Top 30 | AI For Bangla |
| 2018,19 | Finalist | Samsung Coding Contest, Bangladesh |