

# 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

## EXPERIENCE

### UNIVERSITY OF NOTRE DAME | GRADUATE ASSISTANT

January 2022 - Present | Notre Dame, IN USA

- Working as teaching assistance 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.

## SOCIAL LINKS

[linkedin.com/in/lsiddiqsunny](https://www.linkedin.com/in/lsiddiqsunny)

[github.com/lsiddiqsunny](https://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

## PUBLICATION

*SecurityEval Dataset: Mining Vulnerability Examples to Evaluate Machine Learning-Based Code Generation Techniques*, Mohammed Latif Siddiq, and Joanna C. S. Santos, 1<sup>st</sup> 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, Surov Jajodia, and Joanna C. S. Santos, 22<sup>nd</sup> 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<sup>st</sup> 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 UI Islam, Rifat Shahriyar, and Anindya Iqbal, 28<sup>th</sup> 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