

# Mohammed Latif Siddiq

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[GitHub](#) | [LinkedIn](#) | [Google Scholar](#) | [Researchgate](#)

## EDUCATION

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**Bangladesh University of Engineering and Technology** February 2016 – February 2021  
Bachelor of Science in Engineering, Department of Computer Science and Engineering CGPA: 3.46/4.00

**Notre Dame College** July 2013 – June 2015  
Higher School Certificate, Science GPA: 5.00/5.00

**Shamsul Hoque Khan High School** January 2010 – April 2023  
Secondary School Certificate, Science GPA: 5.00/5.00

## PROFESSIONAL EXPERIENCES

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**REVE Systems, Dhaka, Bangladesh** | *Junior Software Engineer* March, 2021 - Present

- Building modules for Bangladesh Parliament.
- Working with Java servlet, JSP and MySQL.

**DISA Lab, University of Calgary, Calgary, Canada** | *Research Intern* March, 2021 - Present

- Working on a research project focusing on software security.
- Mentoring undergrad research intern.

## TECHNICAL SKILLS

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**Languages:** Java, C, C++, Python, Matlab, Dart, Shell

**Database:** Oracle, MySQL, SQLite, MongoDB, Firebase

**OS:** Windows, Linux, Windows Server 2016

**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:** L<sup>A</sup>T<sub>E</sub>X, Beamer, Overleaf

**Other:** Google Apps Script, Software Defined Networking, PyTorch, OpenGL, Weka, Mininet, NS2

## PUBLICATIONS

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28<sup>th</sup> **IEEE International Conference on Software Analysis, Evolution and Re-engineering (SANER 2021)**

*SQLIFIX : Learning Based Approach to Fix SQL Injection Vulnerabilities in Source Code*(12 Page Technical Paper, Acceptance rate: 25%)

**Mohammed Latif Siddiq**, Md. Rezwanur Rahman Jahin, Mohammad Rafid Ul Islam, Rifat Shahriyar and Anindya Iqbal

## POSTERS & EXTENDED ABSTRACTS

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**IEEE Computer Society Bangladesh Chapter Winter Symposium 2020**

*Bangla Captioning Image Taken by Blind People*(Extended Abstracts)

**Mohammed Latif Siddiq**, Nafis Tahmid Chowdhury

## RESEARCH PROJECTS

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### Detecting Security Bugs in GitHub Codes from the IoT Domain

*Python, Deep Learning, GHTorrent*

July, 2021

I am currently working on a research project to find out security bugs in GitHub codes from the IoT domain. This project is supervised by Dr. Gias Uddin, Assistant Professor, University of Calgary.

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

April, 2021

I worked under Dr. Shubhra Kanti Karmaker, Assistant Professor, Auburn University, Alabama, to find out a solution to do online text clustering for the asked questions in MOOCs.

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

December, 2020

Using the deep learning model, we generated captions for the image captured by blind people, formally known as the VizWiz dataset. Listed as one of the top 30 projects in AI for Bangla Competition.

### Detecting Number of TCP and UDP Flows in SDN by ML

*Machine Learning, Networking SDN, OpenFlow Protocol, Mininet, IPERF, Weka*

November 2020

We created a method to detect the number of TCP and UDP flows in a Software-Defined Network simulated in Mininet by using IPERF to generate flows.

### Security Attack Tools and Defenders | *Python, Scapy*

June, 2020

In this project, I was demonstrating some security attacks like Port scanning, DDOS on DNS server, ARP Cache poisoning, Dictionary attack, etc., and their possible solutions.

## ACADEMIC PROJECTS

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### Shashtho Sheba | *Flutter, Node.js, Firebase, MongoDB, AppRTC, AWS*

November, 2020

A cluster-based telemedicine mobile application built under Dr ABM Alim Al Islam, Professor, CSE, BUET.

### API for Bangladeshi Medicine | *Node.js, MongoDB*

November, 2020

A subproduct of *Shashtho Sheba* providing the information of medicine such as price, generic name, and company name.

### Obogoto | *Flutter, Google Apps Script, Google Map API, ML*

March, 2020

A mobile application for contact tracing and information provider about the Covid-19.

### Vasha Shikkha | *Laravel, Flutter, MySQL, Node.js*

October, 2019

A cross-platform application for teaching language built under Dr. Anindya Iqbal, Professor, CSE, BUET.

### Miscellaneous

2016 - 2019

I built RFID based Ticket Purchasing System for Metro rail using AtMega and Arduino. I used Java to build an Online Book Sharing Platform and Online Blood Donation System. I used OpenGL to simulate a local board game, Snake and Ladder.

## CERTIFICATES

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### LinkedIn Assessment

C, C++, Python, Django, MongoDB, MySQL, Git, HTML, Windows server, and Machine Learning

## Other Certifications

Deep Learning Specialization(Cousera), Human-Computer Interaction I(Edx.org), Cyber Security Essential(CISCO Learning Platform), Problem Solving (Advanced) Skills Certification Test(Hackerrank)

## Problem Solving

Codeforces(Highest Rating: 1620), Codechef(Highest Rating: 1841), Hackerrank(Highest Rating: 1780)

## ACHIEVEMENTS

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### AI FOR BANGLA, 2021

Position: Top 30

### GOOGLE HASHCODE, 2019

Position: 5<sup>th</sup> Among Bangladeshi Teams

### IEEEEXTREME 12.0, 2018

Position: 4<sup>th</sup> Among Bangladeshi Teams

### AUB PROGRAMMING CONTEST, 2018

Position: 11<sup>th</sup>

### SUMSUNG CODING CONTEST, 2018, 2019

Finalist

### TECH FOR PEACE HACKATHON, 2017

Winner

## REFERENCES

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### Dr.Anindya Iqbal

Professor, Computer Science and Technology Department  
Bangladesh University of Engineering and Technology, Dhaka.  
Email: anindya.iqbal AT yahoo DOT com

### Dr. Gias Uddin

Assistant Professor, Schulich School of Engineering  
Electrical and Software Engineering, University of Calgary, Calgary.  
Email: gias.uddin AT ucalgary DOT ca