

Mohammed Latif Siddiq

+8801851718818 | lsiddiqsunny@gmail.com | <https://lsiddiqsunny.github.io>

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

EDUCATION

Bangladesh University of Engineering and Technology

February, 2016 - February, 2021

Bachelor of Science in Computer Science and Engineering

Department of Computer Science and Engineering

CGPA: 3.46/4.00

PROFESSIONAL EXPERIENCES

REVE Systems, Dhaka, Bangladesh | *Junior Software Engineer*

March, 2021 - Present

- Working on enterprise software for Bangladesh Parliament Secretariat .
- Working with Java servlet, JSP and MySQL.

PUBLICATIONS

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

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 (*Equal contribution)

POSTERS & EXTENDED ABSTRACTS

IEEE Computer Society Bangladesh Chapter Winter Symposium 2020

Bangla Captioning Image Taken by Blind People(Extended Abstracts)

Mohammed Latif Siddiq, Nafis Tahmid Chowdhury

4th **International Conference on Networking, Systems and Security (NSysS 2017)**

Online Blood Bank-Connecting Donors and Blood Needing People in Bangladesh(Poster)

Mohammed Latif Siddiq, Aditya Chakma and Farhan Tanvir Uthshaw

RESEARCH PROJECTS

Telemedicine Sectors in Bangladesh

User-Centric Design, Human Computer Interaction, Survey

September, 2021

In this study, we aimed to determine the current state of the telemedicine industry in Bangladesh and its prospects. We created a telemedicine solution for this study, analyzed the top telemedicine solutions in the market and compared them with our solution.

Detecting Security Bugs in GitHub Codes from the IoT Domain

Python, Deep Learning, GHTorrent

July, 2021 - Present

I am now working on a research effort to uncover security flaws in IoT-related GitHub code under Dr. Gias Uddin, Assistant Professor, University of Calgary.

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

April, 2021

Dr. Shubhra Kanti Karmaker, Assistant Professor at Auburn University in Alabama, and I worked together to establish a way to accomplish online text clustering for MOOC questions.

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

The Bangla captions for the image captured by blind persons, formally known as the VizWiz dataset, were generated using the deep learning model. This project was selected as one of the top 30 AI initiatives for the Bangladesh Government's 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 using IPERF to generate flows.

Security Attack Tools and Defenders | *Python, Scapy*

June, 2020

In this project, I demonstrated common security attacks and solutions, such as port scanning, DOS attack on DNS servers, ARP Cache poisoning, Dictionary attack, etc.

ACADEMIC PROJECTS

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

November, 2020

A cluster-based telemedicine mobile application built under Dr. A.B.M. Alim Al Islam, Professor, Computer Science and Engineering, BUET. This application helps the doctor and patient find the real-life experience of a traditional doctor's chamber.

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. The data is collected from the local online pharmacy to provide a up-to date information.

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

March, 2020

A mobile application for contact tracing and information provider about the Covid-19. This product has been developed as a part of the response to the first wave of Covid-19. It helps to check out symptoms about Covid-19 and track real-time information about the affected rate, death rate. It also provides information about nearby hospitals and medical centers.

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

October, 2019

A cross-platform application for teaching language built under Dr. Anindya Iqbal, Professor, Computer Science and Engineering, BUET. This product intends to help people to learn a new language in an interactive manner.

Miscellaneous

2016 - 2019

Using AtMega and Arduino, I created an RFID-based Ticket Purchasing System for Metro rail. I created an online book-sharing platform and a blood donation system using Java. I created a Snake and Ladder simulation using OpenGL and C.

CERTIFICATES

TOEFL iBT

Total: 99(Out of 120, 30 Per section)

Reading: 24, Listening: 27, Speaking: 23, Writing: 25

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

AI FOR BANGLA, BANGLADESH, 2021

Position: Top 30

GOOGLE HASHCODE, GLOBAL, 2019

Position: 5th Among Bangladeshi Teams

IEEEEXTREME 12.0, GLOBAL, 2018

Position: 4th Among Bangladeshi Teams

AUB PROGRAMMING CONTEST, BANGLADESH, 2018

Position: 11th

SUMSUNG CODING CONTEST, BANGLADESH, 2018, 2019

Finalist

TECH FOR PEACE HACKATHON, BANGLADESH, 2017

Winner

GOVERNMENT SCHOLARSHIP, BANGLADESH, 2015

Awarded For Outstanding Performance in Higher School Certificate Examination

TECHNICAL SKILLS

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^AT_EX, Beamer, Overleaf

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