Mohammed Latif Siddiq

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GitHub | LinkedIn | Google Scholar | Researchgate

EDUCATION

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

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

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

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(12 Page Technical Paper, Acceptance rate: 25%)
Mohammed Latif Siddiq, Md. Rezwanur Rahman Jahin, Mohammad Rafid Ul Islam, Rifat Shahriyar and Anindya Iqbal

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

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

I am currently working on a research project to find out security bugs in GitHub codes from 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 generate 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

Demonstrating some security attacks like Port scanning, DDOS on DNS server, ARP Cache poisoning, Dictionary attack etc. and their possible solutions.

ACADEMIC PROJECTS

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

CERTIFICATES

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, 2021
Position: Top 30

GOOGLE HASHCODE, 2019
Position: 5th Among Bangladeshi Teams

IEEEXTREME 12.0, 2018
Position: 4th Among Bangladeshi Teams

AUB PROGRAMMING CONTEST, 2018
Position: 11th

SUMSUNG CODING CONTEST, 2018, 2019
Finalist

TECH FOR PEACE HACKATHON, 2017
Winner

REFERENCES

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