



# Shehabul Islam Sawraz

## Contact

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### Github:

<https://github.com/Shehabul-Islam-Sawraz>

## Additional Skills

- Language: C++, Python, Java, Javascript, SQL, HTML
- Frameworks: Unity, Django
- Database: MySQL, Oracle
- Development: Android Studio
- Designing: MS Word, Latex, MS Powerpoint, Adobe Photoshop, Adobe Illustrator

## Current Development

- Penetration Testing
- Espressif Stack
- Memory Forensics

## Professional Summary

I'm Shehabul Islam Sawraz, currently a Junior (Level-4) Year Computer Science and Engineering Undergraduate Student, from Bangladesh University of Engineering and Technology (BUET). I am mostly interested in Reverse Engineering, Cryptography, Forensics, Android App Development & Web Backend Development. Currently aspire to pursue entry-level job opportunities with good learning opportunities and multi-tasking skills.

## Education

*Since April 2019- Present*

### Bangladesh University of Engineering and Technology

Computer Science and Engineering,

Enrolled in B.Sc Program

**CGPA:** 3.63 out of 4.00 (*Up to Level-4, Term-1*)

**Courses Taken:** Data Structures and Algorithms, Object Oriented Programming, Discrete Mathematics, Mathematical Analysis For Computer Science, Probability and Statistics, Numerical Methods, Database, Theory of Computation, Compiler, Computer Architecture, Microprocessors, Microcontrollers, and Embedded Systems, Operating Systems, Computer Networks, Computer Security, Artificial Intelligence, Information System Design, Software Development, Bioinformatics, Basic Graph Theory, Machine Learning, Simulation and Modeling

*2016-2018*

### Dhaka College, Dhaka

Higher Secondary Certificate (H.S.C) from Science background with General grade Scholarship (5.0 GPA)

*Passed out in 2016*

### A.K High School & College

Secondary School Certificate from Science background with General grade Scholarship (5.0 GPA)

## Projects

*2021*

### Hello Doctor - An Android App for Communication Between Doctors & Patient

A mobile application that facilitates making appointments and monitoring patients

<https://github.com/Shehabul-Islam-Sawraz/HelloDoctor>

**Tools and Technologies:** Java, Android Studio, Firebase, Git

*2021*

### eM-Client – A Desktop Email Client

It features sending and receiving email, handling multiple emails simultaneously.

<https://github.com/Shehabul-Islam-Sawraz/eM-Client>

**Demonstration Video:** <http://tiny.cc/fhflvz>

**Tools and Technologies:** JavaFx GUI, Java Networking

## Things of Interest

- Linux Kernel Modification
- Open Source Development Projects
- Web Exploitation
- NodeJS

## About Me

- I love teaching and travelling
- I prefer Game Development than playing Games
- I love to solve Capture the Flag (CTF) problems

2021

### RentaStay – An oracle based bootstrapped Django Website

This was my Term Project collaborating with my teammate. Here a user can rent rooms that are available in the location they are going. At the same time, they can upload the information of their own house so that others can rent that.

<https://github.com/fardinanam/RentaStay>

**Tools and Technologies:** Python, Django, Oracle, HTML5, CSS3, Bootstrap, JavaScript, JQuery

2022

### YAPG – Yet Another Pong Game

This is a simple *pong* game made with ATmega32 microcontroller.

[https://github.com/Shehabul-Islam-Sawraz/YAPG-Yet Another Pong Game](https://github.com/Shehabul-Islam-Sawraz/YAPG-Yet_Another_Pong_Game)

**Tools and Technologies:** ATmega32, Ultrasonic SONAR, Vibration Motor, Buzzer, LED Matrix, LCD Display, I2C Communication

2023

### ParkedCar – A Car Parking Rental Service

This was my Term Project collaborating with my teammates. Here a Car Owner can rent an Apartment's free Parking Spot on hourly, daily and monthly basis.

<https://github.com/orgs/ParkedCar-Dev/repositories>

**Tools and Technologies:** Java, Sequelize, Git, Express.js, HTML, CSS3, PostgreSQL

## Research & Publications

2023

### Zero-shot Prompting for Code Complexity Prediction Using GitHub Copilot

**Authors:** Joanna Cecilia da Silva Santos, Mohammed Latif Siddiq, Abdus Samee, Sk Ruhul Azgor, Md. Asif Haider, Shehabul Islam Sawraz

**Conference:** 2023 IEEE/ACM 2nd International Workshop on Natural Language-Based Software

<https://doi.org/10.1109/NLBSE59153.2023.00018>

2023

### Smart Infrastructure: Leveraging AI and IoT for Digital Asset Management and Structural Health Monitoring

*Ongoing Undergraduate Thesis*

**Supervisors:** Dr. A. B. M. Alim Al Islam (Professor, Bangladesh University of Engineering and Technology, BUET)

## Affiliations

2023: **President**, BUET Cyber Security Club

## Major Achievements

2020: **Winner (Tertiary Student Project Category)**, BASIS National ICT Awards