## Dhaka, Bangladesh [abrarhasan1998@gmail.com](mailto:abrarhasan1998@gmail.com) Contact No: **01403061198**

ABRAR HASAN

[linkedin.com/in/abrarhasan3](https://www.linkedin.com/in/abrarhasan3/)

<https://github.com/abrarhasan3/>

[youtube.com/@abrarhasan4197](https://www.youtube.com/@abrarhasan4197)

**Education**

* **Khulna University of Engineering & Technology January 2019 – March 2024**

## B.Sc. Computer Science & Engineering (CGPA-**3.64**/**4.00**)

**Areas of Interest:** Software Development, Computer Networks, Machine Learning, IoT and Network Security

## **Relevant Courses:** Structured Programming, Object Oriented Programming, Database, Computer Networks, Data Structures & Algorithms, Computer Security, Operating System.

# Technical Skills

## **Languages**: C, C++, Python, Java, Oracle, Swift

* **Skills**: Problem Solving, Machine Learning
* **Technologies**: Git

# Projects

[Lightweight Cryptography Framework Based on Cellular Automata:](https://github.com/abrarhasan3/Thesis.git) ***IoT | Python | Logisim***

* This a lightweight Cryptography framework for IoT application.
* The encryption module uses cellular automata-based encryption and key randomization algorithm.
* The algorithm was implemented in Logisim for simulation purpose.

[System for Safe Road](https://github.com/abrarhasan3/System_For_Safe_Road.git): ***Traffic Sign Detection with YOLOv4 | Android App Integration***

* Trained traffic sign detection model and integrated it with a continuous vehicle monitoring application using google maps API.

[Simple Database](https://github.com/abrarhasan3/Simple-Database.git): ***Oracle | Stock Market***

* With the concept of a mock stock market, a console application was developed.
* Involved regular SQL queries.

[Tuition Finder:](https://github.com/abrarhasan3/Tution_Finder.git) ***IOS | Swift***

* An application to find tuition for both students and teachers in IOS platform.
* Two different modules for students and teachers to show their requirements.
* Searching criteria includes salary, location, subject etc.
* Firebase Realtime Database was used.

[Cardiac Recorder:](https://github.com/abrarhasan3/CardiacRecorder.git) ***Android | Java | Firebase***

* An android application to keep a record of cardiac health
* Firebase Realtime database with attractive UI was used.

[Stock Value Finder:](https://github.com/abrarhasan3/StockValueFinder.git) ***Android | Java | Firebase***

* An android application of a mock stock exchange.
* The application was coded with java and firebase Realtime database was used.

# Research Experience

* My final year thesis is on Lightweight Cryptography supervised by Professor Dr. M.M.A. Hashem.
* Worked with Professor Dr. Md. Aminul Haque Akhand on Yolov4 Traffic Sign Detection.

# Awards and Achievements

* Deans Award 3 times in 2022,2021 and 2020.
* Champion, Freshers League, KUET Debating Society, 2019.

# Leadership and Other Activities

* Worked as President of KUET Debating Society. Was active in both Debating and Organizing Events.
* Content Creator at YouTube on Educational Videos.