

# Md Habibur Rahman

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## WORK EXPERIENCE

**SAMSUNG R&D INSTITUTE BANGLADESH | Senior Software Engineer** Dhaka, Bangladesh | March 2022 – Present

- Designed and implemented cross-platform **Video conferencing** and live streaming part of the **SonoSync(Ultrasound system)** Web application. SonoSync provides Real-time image streaming, discussion, and remote control of the ultrasound system to attend to the streaming during the Ultrasound.
- Established seamless communication between SonoSync components (**Agent, Desk, Web**) using shared memory architecture, ensuring optimal performance and user experience.
- Built Camera module for authentication and integrated multi-downloadable option to **HelloMom**(Simple transfer of fetal ultrasound images and clips).
- Developed a feature to identify users based on Windows Operating System (OS) versions **Windows7 to Windows11** for the **Samsung Dex** project.

**SAMSUNG R&D INSTITUTE BANGLADESH | Software Engineer** Dhaka, Bangladesh | November 2019 – February 2022

- Modularized PC-side hibernation detection mechanisms and optimized Samsung DeX-mobile connection protocols to deliver a **5.6% battery life** improvement.
- Streamlined over **100** registry values and refactored **1+ million** lines of code for the **Samsung Dex** project, significantly boosting memory performance.
- Increased Samsung Dex memory performance by **2%**, leading to faster loading times and improved user experience.
- Crafted byte data parsing and generation method for the **Samsung Multi Connectivity Channel (MCF)** to support from **32bit** Mobile data to **64bit** PC data.
- Utilized chunked data loading to optimize call logs, resulting in a **10% performance boost** for **Galaxy Watch 4** Phone app.


## TECHNICAL SKILLS

**Data Structures and Algorithms** (Proficient in concepts as well as field of applications)

**Language and framework in** C++, Python, Django REST, ReactJs, Material UI, NodeJs, ExpressJs, MySQL, PostgreSQL

**Tools and Management** Git, Gerrit, PLM, JIRA,

## AWARDS & ACHIEVEMENT

- National Collegiate Programming Contest CUET,2017 
- Runner Up Intra University programming contest, JUST, 2017
- Solved almost **1000+** Problems in different online judge like Codeforces, Codechef, Uva, HackerRank

## EDUCATION

BSc. Engg in Computer Science & Engineering

Jashore, Bangladesh | June 2019

Jashore University of Science & Technology

**Undergraduate project:** Vehicle tracking system using GPS neo 6m, GSM SIM 900a, arduino and google maps

## PROJECTS

**RANDOM OBJECT GENERATOR** 

Python, Django, JavaScript

A dynamic and engaging personal blog platform using the powerful combination of Django Rest Framework API and ReactJS, with seamless JWT authentication for secure user access.

- Default random text file size 2MB. Can be set the size of the random object file.

**PERSONAL BLOG SITE** 

Python, DRF, JWT, Redis, ReactJs, ReqctQuill

A dynamic and engaging personal blog platform using the powerful combination of Django Rest Framework API and ReactJS, with seamless JWT authentication for secure user access.

- JWT authentication safeguards user data, ensuring a secure and trustworthy platform.
- Leverage caching mechanisms to minimize API calls and ensure lightning-fast loading times.