

Nadia Islam Rupa

 sohasara853@gmail.com

 nadia-islam-939b4b335

 +880 1976413384

 sohasara

 Mirpur, Dhaka, Bangladesh

SUMMARY

I am a passionate Flutter developer with a strong interest in building efficient and user-friendly mobile applications. I specialize in Flutter and Dart, and I'm also skilled in C, Java, HTML, and CSS. I have experience working with both local and cloud-based databases, including Hive, Firebase, and PHP-based backends. I enjoy learning new technologies and turning ideas into real-world apps that make a difference.

EDUCATION

September 2022 - Present

Green University of Bangladesh

BSc in CSE - 3.70

June 2019 - December 2021

Shaheed Police Smrity College

HSC - 5.00

PROJECTS

July 2025 - September 2025

Secure File Storage Using Custom Snake Matrix XOR Encryption (Group Project)

Flutter | Firebase | Dart | Cryptography

- Developed a cross-platform Flutter application for secure document storage.
- Implemented a custom **Snake Matrix XOR encryption** with **RSA key encryption** to secure files before cloud upload.
- Integrated **Firebase Authentication** (Google Sign-In), **Firestore** for metadata, and **Firebase Storage** for encrypted files.
- Optimized performance using **Isolates** for heavy cryptographic tasks and **ZLib compression** for storage efficiency.
- Managed secure keys using **Flutter SecureStorage** and lightweight metadata via **SharedPreferences**.
- Supported multiple file types including and with secure encryption/decryption workflow.

Key Skills: Flutter, Firebase, Cryptography (RSA & custom XOR), Dart, Mobile Security, Performance Optimization

July 2025 - September 2025

Mini Shell with Smart Suggestions

Scripting Language

- Built a lightweight command-line shell with **smart command suggestions** and execution history.
- Integrated predictive algorithms for **auto-completion** and efficient task handling.

January 2025 - March 2025

DeenHub App (Group Project)

DeenHub is an all-in-one Islamic app offering 35,000+ Hadith, location-based prayer times, daily duas, a Tasbih counter, Hijri calendar, and more. Users can bookmark Hadiths, track dhikr, and explore the 99 Names of Allah to enhance their spiritual journey.

September 2024 - December 2025

E-Commerce App

Flutter | Firebase | Dart

- Built a mobile e-commerce application supporting product listing, cart, checkout, and order tracking.
- Implemented **Firebase Authentication**, **Firestore** for database management, and **real-time updates** for inventory and orders.

September 2023 - February 2024

Finance Management App

Java / MySQL

- Developed a personal finance management application to track income, expenses, and budgets.
- Implemented **data persistence** using **MySQL** and generated **visual reports** for financial insights.

August 2023 - October 2023

Weather App

Flutter / REST API / Dart

- Built a cross-platform weather application fetching **real-time weather data** from external APIs.
- Implemented **location-based forecasts**, dynamic UI updates, and error handling for network issues.

SKILLS

- **Programming Languages:** Dart, C, Java
- **Frameworks & Technologies:** Flutter
- **Database Management:** MySQL, NoSQL(Hive)