






Nadia Islam Rupa

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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) <i>Flutter Firebase Dart Cryptography</i> <ul style="list-style-type: none">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 <code>pdf</code> and <code>docx</code> 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 <i>Scripting Language</i> <ul style="list-style-type: none">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) <p>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.</p>
September 2024 - December 2025	E-Commerce App <i>Flutter Firebase Dart</i> <ul style="list-style-type: none">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
- **Database Management:** MySQL, NoSQL(Hive)
- **Frameworks & Technologies:** Flutter