

# Swajan Barua

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## Summary

Backend developer with experience in RESTful API design and full-stack web applications. Proficient in Go, NestJS, JavaScript, Kotlin, and familiar with PostgreSQL and secure authentication using JWT. Strong foundation in data structures, algorithms, and competitive programming, with hands-on experience building scalable and modular backend systems.

## Skills

**Languages:** Go, C#, Kotlin, C, C++, Java, Python, JavaScript, PHP

**Frameworks:** NestJS, Next.js, .NET Core

**Databases:** PostgreSQL, MySQL, Firebase

**Tools:** Git, GitHub, Postman, Chrome DevTools, Android Studio

**Competitive Programming:** Codeforces (Max Rating: 1162), LeetCode

## Projects

### ArkPlayZone – Indoor Playzone Booking System (Link)

June 2025

*NestJS, PostgreSQL, JWT, SMTP, OTP System, RESTful API*

- Built RESTful backend API for booking, tracking, and canceling slots
- Implemented JWT authentication, role-based access control, OTP verification, and SMTP notifications

### Bkash Personal Transaction Tracker

Aug 2025

*NestJS, Next.js, PostgreSQL, Android*

- Full-stack system for automating personal bKash transaction tracking
- Integrated SMS parsing, REST APIs, JWT authentication, and PostgreSQL CRUD

### AIUB API – University Data REST API (Ongoing) (Link)

Aug 2025

*NestJS, RESTful API, JSON*

- Open-source REST API exposing AIUB data: faculty, departments, designations, notices
- Designed for developers, dashboards, and automation tools

### Codeforces Tracker (CLI Tool) (Link)

Dec 2024

*Go, Codeforces API, Telegram Bot API*

- CLI tool to track competitive programming activity with rating filters and daily stats
- Integrated Telegram Bot API for automated notifications

### Smart Student Assistant (Android App)

Jan 2026

*Kotlin, Firebase, Room (SQLite), NestJS, FCM, SMTP*

- Android application to help university students manage class routines, schedules, faculty information, and university notices
- Implemented real-time notifications using Firebase Cloud Messaging with a NestJS backend
- Integrated secure OTP-based authentication and SMTP email service for system notifications

## Competitions & Achievements

- AIUB CS Fest Programming Contest (2024): Ranked 17th out of 100+ participants
- AIUB CS Fest Robo Soccer Competition (2024): Advanced to 2nd round
- Dean's List Honors — Fall 2023–24
- Samsung R&D Bangladesh Programming Contest (2024)

## Education

### American International University–Bangladesh (AIUB)

BSc in Computer Science and Engineering (Major: Software Engineering)

### Milestone College

Higher Secondary Certificate (HSC)

GPA: 5.00/5.00