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## EDUCATION

2020 – 2025	Khulna University of Engineering & Technology, Khulna B.Sc. in Computer Science and Engineering
2017 – 2019	Kabi Nazrul Govt. College, Dhaka H.S.C in Science, GPA: 4.92
2015 – 2017	Jatrabari Ideal School and College, Dhaka S.S.C in Science, GPA: 4.95

## PROGRAMMING SKILLS

- Programming Languages: C, C++, Java, Python
- Database: MySQL, Firebase, Oracle, PL/SQL
- Frameworks/Tools: Android Studio, Laravel, Git, TensorFlow, Flask

## PROJECTS

- **Indoor Fire Detection Leveraging Mask R-CNN with Enhanced Preprocessing Technique (Thesis):**  
The research enhances indoor fire detection using Mask R-CNN with preprocessing techniques like noise reduction. Through transfer learning with ResNet-50, the model segments fire regions accurately while balancing detection accuracy and real-time performance.
- **Eduscan (Java, Firebase, ML, Tensorflow, ML\_KIT)** [\[github link\]](#)
  - OCR Document Conversion: Converts text from images into editable PDF, DOCX, CSV formats using OCR technology.
  - Attendance Tracking: Automatically tracks attendance and generates detailed reports from image.
  - Storage Optimization: Compresses data for efficient storage and minimal device usage.
- **Moodrhythm (Swift, Firebase, API)** [\[github link\]](#)
  - Weather-Based Playlists: Tailors music to current weather for an immersive experience.
  - Personalized Suggestions: Curates playlists based on user preferences and atmospheric conditions.
  - Real-Time Adaptation: Dynamically updates playlists in response to weather changes with seamless, intuitive navigation.
- **Cardiac Recorder (Java, Firebase, UI-Test, Unit-Test)** [\[github link\]](#)
  - Measure heart rate and track blood pressure trends.
  - Analyze past data with cardiac history access.
  - User-friendly interface with UI and unit testing for reliability.
- **Vehicle Rental APP (Android Studio, Java, Firebase)** [\[github link\]](#)
  - Secure authentication, user profile management, and vehicle booking.
  - Firebase integration for real-time data storage and updates.
  - Intuitive UI with navigation drawer for easy access to features.
- **Vehicle Rental Website (Laravel, Firebase, CSS)** [\[github link\]](#)
  - Vehicle Booking: Rent vehicles for inter-city and outer-city travel with an easy-to-use system.
  - Intuitive UI: High-quality design with user-friendly navigation.
  - Real-Time Sync: Uses Firebase for real-time data updates and management.
- **Bicycle and Accessories sell and rent (Oracle, PL/SQL)** [\[github link\]](#)
  - Inventory Management: Track bicycles, accessories, sales, and rentals.
  - Optimized Queries: Joins, nested queries, and aggregate functions for insights.
  - PL/SQL Automation: Procedures, functions, and cursors for seamless operations.

## PROGRAMMING PROFILES

- Leetcode: <https://leetcode.com/u/sopnil493/>
- Codeforces: [https://codeforces.com/profile/elin\\_pows](https://codeforces.com/profile/elin_pows)
- Kaggle: <https://www.kaggle.com/acifulsopnil>

## Extra Curricular Activities

Senior Executive, Spectrum (KUET)  
Senior Executive, KUET Debating Society (KDS)  
Achieve 4<sup>th</sup> position in SynergyX2024 Datathon Competition