

# Farhan Rabby

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## PROFESSIONAL SUMMARY

Aspiring Software Engineer with strong problem-solving skills, hands-on experience in Java, C++, C and SQL, and practical projects in software development. Solid foundation in data structures, algorithms, and system design, with proven achievements in competitive programming and team projects. Eager to contribute to Synesis IT's innovative solutions while learning and growing in a collaborative environment.

## TECHNICAL SKILLS

Programming Languages	: Java, C++, C, JavaScript
Databases	: MySQL, Oracle
Tools & Platforms	: Git, Oracle APEX, Android Studio
Other Skills	: OOP, SDLC/STLC, Version Control, Problem Solving, Competitive Coding

## EDUCATION

B.Sc. in Computer Science & Engineering (Software Engineering Major)		CGPA: 3.22/4.00
East West University, Dhaka, Bangladesh		February 2025

## ACHIEVEMENTS

- Solved 250+ DSA problems on **Beecrowd** [Profile Link: <https://judge.beecrowd.com/en/profile/394075>]
- Qualified in the first round of **National Telco Warfare 2024 (Network War Segment)**
- Completed **FinXcel Excel-Based Training & Competition** at East West University, enhancing advanced Excel, finance, and data analysis skills

## PROJECTS

- **Library Management System | C, File Handling | Group Project |** [GitHub/Project Link](#)
  - Designed and implemented core features: book catalog, search (by title/author/category), borrowing/return with fine calculation (30 Tk/day)
  - Used structs and file handling for efficient data storage and retrieval
- **Scientific Calculator | Java | Individual Project |** [GitHub/Project Link](#)
  - Developed a calculator supporting basic and advanced scientific operations using OOP concepts.
  - Ensured modular design for maintainability and future feature expansion.
  - Integrated exception handling and input validation to enhance reliability.
- **Infix to Postfix & Prefix Expression Converter | C++ | Individual Project |** [GitHub/Project Link](#)
  - Built a modular program handling operator precedence, parentheses, and stack-based expression evaluation.
  - Focused on clean, maintainable code and efficient algorithm implementation.
- **FIFA World Cup Database | Oracle APEX, SQL | Group Project |** [GitHub/Project Link](#)
  - Designed and implemented database schema, queries, and triggers for FIFA World Cup 2022 data.
  - Integrated data validation, relationships, and optimized queries for performance.
  - Contributed ~25% to schema design and system implementation, demonstrating team collaboration.
- **Mobile Applications | Java, Android Studio | Individual Projects |** [GitHub/Project Link](#)
  - Lecture Entry App: Managed local SQLite database for storing lecture details with proper CRUD operations.
  - Online Bookstore App: Integrated Firebase cloud database for real-time data syncing, user authentication, and interactive features.
  - Applied debugging, performance optimization, and UI design best practices. [GitHub/Project Link](#)