Md Istahak Islam

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🐙 github.com/Istahak   </> Codeforces: _0Istahak (Rating: 1764 - Expert)

Education

University of Dhaka   *Expected Graduation: January 2026*
Bachelor of Science in Computer Science and Engineering
CGPA: 3.80/4.0 (until Semester 7)

  Relevant Coursework: Data Structures, Algorithms, Web Development, Database Systems, Operating Systems, Computer Networks, Software Engineering, Machine Learning

Technical Skills

- **Programming Languages:** C++, C, Python, Java, JavaScript
- **Web Technologies:** React.js, Node.js, HTML5, CSS3
- **Databases:** MySQL, PostgreSQL
- **Tools & Platforms:** Git, Firebase, Linux, VS Code
- **Others:** Data Structures & Algorithms, Problem Solving

Achievements

- **Codeforces:** Handle: _0Istahak — Rating: **1764** (Expert) — Max Rating: **1764**
- **CodeChef:** Handle: *istahak_27* — Max Rating: **2020** (5-Star)
- **AtCoder:** Handle: *istahak_0* — Max Rating: **1571**
- **Contest Achievements:**
    - **9th Place** - Samsung R&D Institute Bangladesh Code Contest 2025 (Onsite Round)
    - **5th Place** - ICPC Preliminary Dhaka Region 2025 with Team DU_Odyssey
    - **6th Place** - CUET Inter University Programming Contest 2025 with Team DU_Odyssey
    - **6th Place** - DUET Inter University Programming Contest 2025 with Team DU_OBLIVION
    - **8th Place** - Uttara University Inter University Programming Contest 2025 with Team DU_OBLIVION

Research Experience

Spatial-Temporal Granger Causality in Event Sequences   *Ongoing*
Undergraduate Researcher — University of Dhaka

- Developing spatial-temporal Hawkes process extension with MLE-SGLP algorithm and event-region encoding for intra/inter-dependencies
- Validated on real-world datasets uncovering spatial propagation patterns for epidemics, crime, and social networks

Projects

FootpathEncroachmentBD - Urban Surveillance ML System   *2025*
Technologies: Python, TensorFlow, MobileNetV2, DenseNet121, CNN

- Developed CNN classification system achieving 99.02% accuracy (Custom CNN) and 90.67% multi-class accuracy (MobileNetV2) for detecting footpath encroachment in Dhaka
- Applied transfer learning with multiple architectures (MobileNetV2, DenseNet121, VGG16, ResNet50) addressing class imbalance
- Built automated surveillance pipeline supporting civic authorities in urban encroachment response

SeedHope - Fundraising Web Application   *2024*
Technologies: Java Spring Boot, TypeScript, React.js, PostgreSQL

- Developed Java Spring Boot backend for full-stack fundraising platform with campaign management, authentication, and donation processing
- Implemented RESTful APIs with real-time campaign tracking and payment integration
- Collaborated with frontend team delivering social impact features for Bangladesh community

Farmer Support Platform   *2023*
Technologies: Node.js, Python FastAPI, React.js, SQLLite

- Built full-stack platform connecting farmers with experts using Node.js and Python FastAPI backend
- Implemented expert consultation, community forums, and farming calendar with frontend components
- Integrated weather API delivering location-based forecasts for data-driven farming decisions

Kodeshell - Competitive Programming Mobile App   *2022*
Technologies: Java, Android, RESTful APIs, Firebase

- Developed Android app consolidating Codeforces, CodeChef, AtCoder, and LeetCode with unified interface
- Implemented API integration fetching real-time profiles, ratings, and contest schedules with notification system
- Integrated community features for chat, posts, and competitive programming discussions

Extracurricular Activities

- **Competitive Programming Teams:** Active member of DU_Odyssey and DU_OBLIVION, competing in national and international contests
- **Problem Solving:** Solved 2000+ problems across Codeforces, CodeChef, AtCoder, and LeetCode platforms
- **Community Engagement:** Contributed to competitive programming community through Kodeshell app development