

Bakul Ahmed

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📍 Dhaka, Bangladesh

SUMMARY

- Computer Science undergraduate (CGPA 3.96/4.00) with a strong foundation in data structures, algorithms, and modern software development.
- Hands-on experience in Python, C/C++, Java, and full-stack web development (React, Next.js, Node.js), with three independently built projects.
- Technical leader and event coordinator: General Secretary of the Green University Computer Club, organizing university-wide technology events and mentoring peers.
- Aspiring AI/ML researcher with coursework and project experience spanning Artificial Intelligence, Machine Learning, Natural Language Processing, and Data Mining.

EDUCATION

Green University of Bangladesh

B.Sc. in Computer Science and Engineering

Sep 2023 – October 2027 (Expected)

Dhaka, Bangladesh

- CGPA: 3.96/4.00
- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Computer Architecture, Digital Logic Design, Operating Systems, Computer Networks, Software Engineering, Artificial Intelligence, Machine Learning, Data Mining, Natural Language Processing, Compiler Design

TECHNICAL SKILLS

- **Languages:** Python, C/C++, Java, JavaScript, TypeScript, SQL
- **AI & Data:** Machine Learning (ML), Artificial Intelligence (AI), Natural Language Processing (NLP), Data Mining, Data Analysis, LLM Integration
- **Frameworks & Tools:** React, Next.js, Node.js, Three.js, Colyseus, Docker, Git, Linux
- **Core Concepts:** Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Database Management Systems (DBMS), Computer Networks, Operating Systems

PROJECTS

Web Game Platform

Full-Stack Multiplayer Game

2026

Next.js, TypeScript, Three.js, Node.js, Colyseus, Docker

- Developed a real-time multiplayer 3D game platform using Next.js, Three.js, Node.js, and Colyseus.
- Implemented client-server synchronization, physics simulation, WebSockets, and containerized deployment with Docker.
- GitHub: github.com/BakulBd/web-game

Epistemic Guard

AI-Assisted Programming Research

2026

TypeScript, VS Code API, LLM, Node.js

- Built a VS Code extension for studying AI-assisted programming through metacognitive explanations and code-repair tasks.
- Integrated LLM-based evaluation, telemetry, and automated experimental workflows for analyzing developers' understanding of AI-generated code.
- GitHub: github.com/BakulBd/epistemic-guard

Green Guardian

AI-Powered University Platform

2026

Next.js, TypeScript, Firebase, TensorFlow.js, Gemini AI

- Built a full-stack university platform with student, teacher, admin, and classroom management workflows.
- Implemented AI exam proctoring, plagiarism detection, OCR, AI-assisted marking, and academic analytics.
- GitHub: github.com/BakulBd/GreenGuardian

EXPERIENCE

Green University Computer Club (GUCC)

General Secretary

Mar 2026 – Present

Green University of Bangladesh

- Lead club operations, coordinate executive activities, and oversee academic, technical, and student-focused initiatives.
- Coordinate with faculty, students, and external organizations to execute major events, collaborations, and technology-focused programs.

Green University Computer Club (GUCC)

Joint Information Secretary & Web Developer

Mar 2025 – Feb 2026

Green University of Bangladesh

- Managed club communications and contributed to the planning and execution of technical and academic events, including HackTheAI and GitAICampusVerse.
- Developed and maintained the club website and managed digital communications, improving online engagement and event outreach.

Department of Artificial Intelligence and Data Science

Student Mentor

Oct 2025 – Present

Green University of Bangladesh

- Mentored undergraduate students for one year, providing academic guidance, peer support, and assistance with coursework and university activities.
- Conducted mentoring and peer-learning sessions to strengthen communication, collaboration, problem-solving, and academic engagement.

CERTIFICATIONS & AWARDS

- **Vice-Chancellor's Award — Green University of Bangladesh:** Recipient across six academic semesters for outstanding academic performance.
- **Stanford University — Code in Place:** Completed the 2023 Python programming course.
- **Competitive Programming:** Solved 100+ programming problems across multiple online judges; Codeforces rating 800+.