

NILOY DAS

Software Engineer | B.Sc. in CSE, KUET

📍 Sylhet, Bangladesh | 📞 +8801410345765 | ✉️ niloyokasd@gmail.com
🌐 niloy-kdas | 🌐 human-netizen | 🐙 dragoonSlayer | 🌐 niloy.is-a.dev

PROFILE

Competitive Programmer (Codeforces Expert, ICPC Asia Dhaka Regional on-site) with strong software engineering fundamentals. Experienced in building backend systems. Built AI-integrated products and led a university competitive programming club, mentoring students in algorithmic problem solving.

TECHNICAL SKILLS

- **Languages:** Java, C++, Python, Dart, SQL, TypeScript
- **Frameworks:** Spring Boot, Spring Security, Spring Data JPA, Flutter, React, Laravel, ASP.NET Core
- **Databases:** PostgreSQL, Oracle, SQL Server, SQLite
- **Tools & DevOps:** Git, Docker, GitHub Actions, Supabase, Firebase, Maven, Linux

COMPETITIVE PROGRAMMING

- 🔗 Codeforces — Handle: [dragoonSlayer](#) | Max Rating: 1735 (Expert) [codeforces](#)
- **3rd** — Khulna Regional Inter-University Programming Contest (KRIUPC) 2024 — [Bruteforce_Knights](#)
 - **12th** — Inter-University Programming Contest | United Group Presents BUET CSE Fest 2024 — [Bruteforce_Knights](#)
 - **14th** — Uttara University Inter-University Programming Contest 2025 — [kuet_evangelion](#)
 - **17th** — MIAKI Presents KUET IUPC Onsite 2025 — [Bruteforce_Knights](#)
 - **66th** — ICPC Asia Dhaka Regional Onsite 2025 — [kuet_evangelion](#)

SELECTED PROJECTS

- StudyLoop — AI Course Companion (Java 21, Spring Boot 4, pgvector, React 19)** [Live Demo](#) | [GitHub](#)
- Built a Spring Boot backend with JWT auth, RBAC, and Flyway-managed schema migrations.
 - Implemented async PDF ingestion with hybrid HNSW vector plus full-text retrieval.
 - Added cross-encoder reranking and a confidence gate that refuses unanswerable questions.
 - Shipped streaming REST endpoints with page-level citations; Dockerized with GitHub Actions CI.
- CodeChamp — Competitive Programming Platform (Laravel 9)** [GitHub](#)
- Built 1v1 coding battles on an online C++ judge that runs untrusted submissions.
 - Integrated the Codeforces API for problem selection, match state, and notifications.
 - Added article CRUD with tags, full-text search, and threaded comments.
- HexaCraft — Hexagonal Voxel Sandbox (C++17, OpenGL 3.3)** [GitHub](#)
- Built a hex-prism voxel engine from scratch in C++17 and OpenGL 3.3 with hand-written GLSL.
 - Implemented switchable Phong/Gouraud shading, dynamic point lights, and a deferred water pass.
 - Layered gameplay on top: procedural terrain, block placement, crafting, and state-machine mobs.

EDUCATION

Khulna University of Engineering & Technology (KUET) **Mar 2022 – Jun 2026**
B.Sc. in Computer Science & Engineering *Khulna, Bangladesh*

LEADERSHIP & COMMUNITY

Club President **Sep 2025 – Jun 2026**
SGIPC, KUET *Khulna, Bangladesh*

- Ran weekly training sessions and practice contests for club members.
- Coordinated team registrations and logistics for national IUPCs.