

Labib Al Faisal

+8801932657243 | labibfaisal450@gmail.com | [linkedin.com/in/labib-al-faisal](https://www.linkedin.com/in/labib-al-faisal) | github.com/labib0x9 | [portfolio](#)

EDUCATION

Sylhet Engineering College

Bachelor in Computer Science and Engineering

Sylhet, Bangladesh

Feb. 2022 – Present

PROJECTS

short — Url Shortener | *Go, PostgreSQL, Redis, RabbitMQ*

GitHub

- Designed an async click analytics pipeline using RabbitMQ — redirect handler publishes a ClickEvent non-blocking post-response, a concurrent worker consumes and persists browser/OS/device breakdowns, with manual ack, configurable retry, and dead-letter queue routing on failure
- Built a Redis token bucket rate limiter using a Lua script for atomic, server-side enforcement with X-RateLimit-* headers

FFgif — video-to-GIF conversion SaaS backend | *Go, PostgreSQL, Redis, RabbitMQ, MinIO, FFmpeg* | GitHub

- Implemented a presigned URL upload flow so video bytes never pass through the application server, reducing load and improving scalability
- Built a concurrent worker pool system with RabbitMQ: separate email, video processing, and metadata workers; each with dead-letter queues, manual ack/nack, and configurable retry logic
- Engineered the FFmpeg conversion pipeline: MinIO download to /tmp, two-pass palette-based GIF encoding, upload back to MinIO, and deferred temp file cleanup
- Implemented JWT authentication with bcrypt+pepper password hashing, Redis-backed token blocklisting for stateless logout, and an email verification flow via RabbitMQ

ccybe | *C, Makefile*

GitHub

- Built a concurrent HTTP/1.1 server in C from scratch using kqueue (macOS), a fixed thread pool (pthreads + mutex), and non-blocking I/O — handling multiple simultaneous clients without blocking the event loop

COMPETITIVE PROGRAMMING ACHIEVEMENTS

Online Judge Ratings

- Codeforces: 1398** (Max Rating) — 9xZERO
- CodeChef: 1538** (Max Rating) — faisalzer0
- AtCoder: 754** (Max Rating) — zer0x_9
- Leetcode: 1565** (Max Rating) — 9xzzer0

Onsite Contest Participations

- ICPC Dhaka Regional 2025** — Ranked **184th** / 313 teams (Top 58.8%) — Team SEC_Gamma_Radiation
- UIU IUPC 2025** — Ranked **73rd** / 160 teams (Top 45.6%) — Team SEC_Pantasma
- MU IUPC 2025** — Ranked **64th** — Team SEC_Gamma_Radiation
- BUET IUPC 2024** — Ranked **91st** — Team SEC_Poltergeist

TECHNICAL SKILLS

Languages: C, C++, GO (Golang)

Databases: PostgreSQL, Redis

Developer Tools: Git, Makefile, Bash

LEADERSHIP

Vice-President

2025 – Present

SEC Programming Club

- Served as a problem setter and judge for the "Taronno Utsob 2025" (Sylhet Division).

Programming Trainer

2024 – 2025

SEC Programming Club

- Mentored juniors through comprehensive workshops on algorithms, data structures, and C++ programming.
- Organized virtual contests and problem discussion sessions.
- Documented technical learning processes, communication practice, and self-reflection on a Self-Growth Journal (YouTube)