FAKRUL ISLAM

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EDUCATION

Politecnico Di Torino   *Turin, Italy*
BSc in Computer Engineering (PoliTO '27)

Passionate, problem-solving engineering student focused on systems, algorithms, and applied software for embedded and autonomous systems. Building projects and competing in algorithmic contests. Particularly interested in spacecraft autonomy and reusable systems

EXPERIENCE

Competitive Programming   *October 2024-Current*

- **CodeChef Rating**: **1359** |**1100+** problems solved.| **Profile**
- **Codeforces**: **100+** Problems Solved | **Profile**
- **LeetCode***: **50+** Problems Solved | **Profile**

PROJECTS

- **Flight Booking & Seat Management System** — Python | **GitHub**
  Simulated an airline reservation system with atomic BOOK/CANCEL semantics, row-major seat allocation, and failure rollbacks.
  Tech: Python, file I/O, 2D arrays, unit tests. — Relevant for operations/embedded systems roles.

- **Hotel Contact Tracing System** — Python | **GitHub**
  Parsed guest logs to detect overlapping stays and produce alphabetical contact lists for flagged suspects.
  Tech: Python, date logic, sorting, file parsing. — Relevant for log analysis & real-world data processing.

- **Machine Log Anomaly Detector** — Python | **GitHub**
  Filtered operational reports for monotonic-level rules and output valid logs plus summary statistics (count & %). GitHub
  Tech: Python, text parsing, rule engines. — Relevant to monitoring and systems reliability roles.

Experience & Leadership

- Attended **BEST** Hackathon by BEST Torino with four other colleagues.
- Event Volunteer (FISU 2025, Special Olympics 2025) — logistics & coordination across 100+ participants.
- Volunteering (upcoming) — **ITA Tech Week 2025**.
- Team Member of **CPPoliTO** (Competitive Programming Club at PoliTO)

SKILLS AND INTEREST

Programming: C, C++, Python, MATLAB
Technical: Data Structures and Algorithms, Git/GitHub
IDEs: VS Code, CLion, PyCharm, Cursor, Replit
Languages: English (C2), Italian (B2)
Interests: Cycling, Chess, Travelling