Md Whahidul Islam Payel

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Professional Summary

Final-year Computer Science and Engineering student with strong expertise in data structures, algorithms, and web development. Experienced in competitive programming, problem setting, and mentoring. Passionate about building scalable software solutions and learning modern technologies, including Go, distributed systems, and cloud architecture. Motivated to contribute to high-performance software development teams and deliver efficient, maintainable, and impactful applications.

Education

- **Daffodil International University**, Dhaka, Bangladesh
  - B.Sc. in Computer Science and Engineering (2022 – Present)
  - CGPA: 3.86 / 4.00
  - Expected Graduation: December 2025

Technical Skills

- **Programming Languages**: C, C++, JavaScript, Go
- **Web Development**: HTML, CSS, React.js, Next.js, TailwindCSS, REST APIs
- **Systems & DevOps**: Linux, Docker, RabbitMQ, Load Balancing, Distributed Systems, Basic Computer Networking
- **Database**: MySQL
- **Version Control**: Git, GitHub
- **Tools**: VS Code, IntelliJ IDEA
- **Miscellaneous**: OOP, CLI

Competitive Programming

- Codeforces: Pupil (Max 1278), 500+ problems solved [Profile]
- CodeChef: 3 Star (Max 1607) [Profile]
- LeetCode: 130+ problems solved [Profile]
- Unlock the Algorithm Programming Contest Fall-23 [Preliminary - B Slot]: Rank 5th [Standings]
- Unlock the Algorithm Programming Contest Fall-23 [Final]: Rank 5th [Standings]
- ICPC Preliminary Dhaka Site 2024: Rank 91 (DIU_bitbenders) [Standings]
- ICPC Asia Dhaka Regional Contest 2024 (Onsite): Rank 180 (DIU_bitbenders) [Standings]

Extra Curriculum Activities

- **Problem Setter & Judge:**
  - DIU Unlock the Algorithm Programming Contest Spring-25 (Preliminary - A Slot)
  - DIU Unlock the Algorithm Programming Contest Summer-25 (Preliminary - A Slot)
- **Trainer & Mentor**
  Advanced Programming Camp, Daffodil International University
  - Mentored over 30 students in fundamental and advanced data structures, algorithms, and competitive programming contest strategy.

Projects

- **Online Judge Platform**:
  - Designed a scalable online judge platform using a microservice architecture to handle concurrent code submissions efficiently.
  - Implemented the core judge daemon in Go with RabbitMQ for reliable message queuing, leveraging Quorum Queues to ensure fault-tolerant and durable message delivery for critical code submissions. [GitHub]
  - Integrated HAProxy for load balancing to distribute incoming submission requests across multiple queues in Quorum Queue Cluster, ensuring high availability and optimal resource utilization.
  - Developed a responsive and user-friendly frontend using Next.js and TailwindCSS for real-time submission status updates and interactive problem solving. [GitHub]
  - **Backend Architecture Overview**: [Drive]

Interests & Activities

- **Technical Interests**: Competitive programming, distributed systems, cloud architecture, and large-scale system design.
- **Community Involvement**: Active member of the DIU Competitive Programming Community, participating in and helping organize university-level contests and workshops.
- **Learning Goals**: Continuously exploring Go programming, DevOps practices (CI/CD, container orchestration, monitoring), in-depth system architecture, and microservices scalability to enhance my skills as a software engineer.