Rezwan Ahmed Ratul

Contact

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📍 Shahzadpur, Sirajganj

About Me

Computer Science and Engineering student with strong foundations in **programming, Linux systems, networking, and containerization**. Experienced in **self-hosted infrastructure, Docker-based services, VPNs, and competitive programming**, including participation in **ICPC Asia Dhaka Regional 2025**. Highly motivated learner with strong analytical and logical thinking skills.

Technical Skills

- **Programming:** C, C++, Python
- **Systems & DevOps:** Linux, Docker, Docker Compose, Kubernetes (basic), Proxmox VE
- **Networking:** TCP/IP, Server Setup, SOCKS5, Shadowsocks, OpenVPN, WireGuard
- **Web & Servers:** Nginx, Apache2, Static Web Hosting
- **Version Control:** Git, GitHub, Gitlab
- **Creative & Media Tools:** Canva, Adobe Lightroom, Color Grading
- **Electronics:** Electrical & Electronics Fundamentals, Circuit Design, Sensors
- **Documentation:** LaTex, Typst.
- **Language:** English (Reading, Writing, Listening)

Activities

- Competitive programming
- Homelab, IoT, automation
- Open-source contributions

Education

Bachelor of Computer Science And Engineering   2028 Estimated
Khwaja Yunus Ali University

- Current Semester: 2nd Year, 2nd Semester
- CGPA: 3.84

Higher Secondary Certificate (HSC)   2022
Shahzadpur Government College

- Rajshahi Board
- GPA: 5.00 (Science)

Secondary School Certificate (SSC)   2020
Shahzadpur Government Model Pilot High School

- Rajshahi Board
- GPA: 5.00 (Science)

Projects & Experience

- **Self-Hosted Networking & Proxy Services:** Deployed and managed **SOCKS5 and Shadowsocks proxy servers** using **Docker** on **Linux** and **Windows**, configuring secure tunneling and container networking.
- **VPN Server Deployment:** Hosted and maintained **OpenVPN** and **WireGuard VPN servers** for secure traffic routing, working with encryption, routing, and firewall concepts.
- **Containerized Web Hosting:** Hosted a **static HTML website** using **Docker** with **Nginx** and **Apache2**, implementing container networking, volumes, and service isolation.
- **Docker & Container Management:** Managed and orchestrated containerized services using **Portainer, Dockage, and Docker Compose** for multi-service deployments.
- **Virtualization & Homelab:** Created and managed **virtual machines** using **Proxmox VE** for testing Linux servers and container workloads.
- **Automation & Control Systems:** Designed and built multiple **automation systems** including **automatic solar tracker, automatic rooftop control, automatic irrigation system, automatic water tank filler,** and **automatic street light,** using ESP32/Arduino, sensors, relays, and control logic.

Achievements

- **International Collegiate Programming Contest (ICPC) Asia Dhaka Regional 2025 — Onsite Participant:** Solved 2 problems in a highly competitive international contest.
- **11th Place — Bangladesh ICT Olympiad (DUET):** Ranked 11th nationally, demonstrating strong ICT knowledge and logical reasoning.
- **First Runner-Up — KYAU Programming Contest:** Achieved 2nd place in Khwaja Yunus Ali University's programming contest.
- **First Runner-Up — 14th Bangladesh Mathematical Olympiad, 2016:** Recognized for strong analytical and problem-solving skills.
- **Science Fair Champion — Shahzadpur (2019 & 2020):** Team Leader of the school team that won First Place for two consecutive years.