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EDUCATION

BSc in Computer Science and Engineering

Rajshahi University of Engineering and Technology, CGPA: 3.51/4.00

Jan '20 – June '25

Motihar, Rajshahi

Higher Secondary School Certification

Bangladesh Navy College, Chattogram, GPA: 5.00/5.00

Jan '17 – July '19

Bandar, Chattogram

EXPERIENCE

Junior Web Developer

Niharon Technologies — A campus startup founded by RUETians at RUET

June, 23 - Aug '23

RUET, Rajshahi

- Developed responsive web features using ReactJS, NodeJS, HTML, and TailwindCSS,

PROJECTS (Project names are hyperlinked)

Institution Alumni Database & Search Platform | JavaScript, ReactJS, TailwindCSS, NodeJS, MySQL

Nov '23

- Created a web platform for RUET CSE alumni to update profiles and students to search by batch, expertise, or location.

Web Scraping with BeautifulSoup/Selenium | Python, BeautifulSoup, Selenium

Aug '24

- Built a scraper to gather contest data from Codeforces, CodeChef, AtCoder, and LeetCode, sorted by start time in an HTML table.

Assembly to Machine Code Interpreter and Program Simulator | javascript, ReactJS, TailwindCSS

Nov '23

- Built a converter from simplified assembly to machine code, simulating flag/register updates.
- Implemented immediate, register, and branching modes (memory instructions pending).

Compiler for a hobby language | C, Lex, Yacc, x86 Assembly

Jan '24

- Developed a compiler translating a C-like hobby language to x86 Assembly, generating Windows executables with MASM.
- Supported nested loops, if-else, logical/math operations, and I/O for integers/strings.

3bit computer architecture design | digital logic design

Sep '23

- This project explores the fundamental design and interaction between a CPU and RAM, simulating how they work together to execute basic programs.
- Designed a 3bit CPU model (3bit ALU, 5x3bit Registers, 3bit Control Unit, carry flag) with 7x16bit RAM and ROM from basic gates.
- Simulated reading/storing values, branching, and basic math/logic operations.

5bit computer design using HDL language | HDL

March '25

- Constructed a 5bit CPU model (5bit ALU, 2bit Control Unit, 4bit flags) with a 10-bit ISA.
- Implemented SHL and NOT operations.

Object Avoiding and Line Following Robot | Arduino Uno R3, C#

Aug '23

- Developed a robotic car using HC-SR04, IR sensors and SG-90, DC motors to follow lines and reroute around obstacles.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, JavaScript
- **Web Development:** ReactJS, NodeJS, Tailwind CSS, HTML
- **Databases:** MySQL
- **Other:** Bash, HDL, x86 Assembly, Arduino, Lex/YACC

ACHIEVEMENTS

- Solved over **350** problems on Codeforces and other sites.
- **Pupil** on Codeforces (max rating: **1228**).
- Top 8 team out of over 100 submissions in FOREWARN DISASTER HACKATHON 1.0, issued by FOREWARN – START NETWORK, Open Mapping Hub-Asia Pacific.