

Samonwita Sarker

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Summary

- Highly motivated Computer Science and Engineering student at CUET with a strong foundation in competitive programming and software development.

EDUCATION

- B.Sc. in Computer Science and Engineering** (2023 – Present)
Chittagong University of Engineering and Technology (CUET)
Current CGPA: 3.58
- Higher Secondary Certificate (HSC)** (2021)
Viqarunnisa Noon College
GPA: 5.00
- Secondary School Certificate (SSC)** (2019)
Viqarunnisa Noon School
GPA: 5.00

SKILLS

- Programming Languages:** C, C++, Java, Python, JavaScript.
- Web Technologies:** HTML5, CSS3, React.js, Node.js, Express.js, Next.js.
- Databases & Tools:** MySQL, PostgreSQL, MongoDB, Git, GitHub, Docker, TanStack Router.
- Core CS Fundamentals:** Data Structures, Algorithms, Object-Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems.

PERSONAL PROJECTS

- TabSaver (Chrome Extension)** — [TabSaver](#) — [GitHub](#)
Developed a productivity tool using **JavaScript** and **Chrome Extension API** to manage and save browser sessions. Features include session persistence and one-click tab restoration, significantly reducing browser memory usage and improving user workflow.
- ResumeForge** — [ResumeForge](#) — [GitHub](#)
Built a dynamic resume-building web application using **React** and **Tailwind CSS**. Integrated live-preview functionality and PDF export features, allowing users to generate professionally formatted resumes in real-time.
- SortnPlay: Sorting Algorithm Simulator** — [SortnPlay](#) — [GitHub](#)
An interactive educational tool built with **React.js** to visualize various sorting algorithms (Bubble, Merge, Quick, etc.). Implemented real-time speed adjustment and array size customization to help students understand algorithmic complexity and step-by-step execution.

- **GlitchBreach** [GlitchBreach — GitHub](#)
Designed and developed a themed interactive web experience using **HTML5, CSS3, and JavaScript**. Focused on creating a highly responsive and visually engaging UI with custom animations and event-driven interactivity.
- **Pixel Art Web App** [Pixel Art — GitHub](#)
Created a grid-based drawing application utilizing **HTML5 Canvas and JavaScript**. Features include custom color palettes, grid resizing, and a "clear board" function, emphasizing clean DOM manipulation and state management.
- **Hangman Game** [Hangman — GitHub](#)
A logic-based word guessing game developed with **Vanilla JavaScript**. Implemented random word generation via API/Array, keyboard event listeners, and dynamic SVG rendering for the game state transitions.

GROUP PROJECTS

- **AI-Powered Hospital Management System** [MediHub — GitHub](#)
Role: Full Stack Developer. Collaborated on a large-scale healthcare platform. Developed secure authentication routes, integrated AI diagnostic APIs, and optimized frontend performance using **React** and **Vercel**.
- **StockMaster** [GitHub](#)
Role: Full Stack Developer. Designed a robust inventory tracker. Built the **Java/SQL** backend for stock management and the frontend interface for real-time inventory updates and data visualization.
- **Adaptive Priority Round Robin** [GitHub](#)
Role: Full Stack Developer. Engineered a simulation tool for OS scheduling. Developed the algorithmic core in **C++** and built a web interface to visualize process queues and performance metrics.
- **Finance Tracker** [GitHub](#)
Role: Full Stack Developer. Built a financial auditing tool. Developed the **PostgreSQL** schema for transaction history and used **Chart.js** for dynamic frontend data rendering.
- **Microops-Hackathon Project** [GitHub](#)
Role: Full Stack Developer. Rapidly prototyped a full-stack solution during a 24-hour hackathon. Handled both API design and UI implementation to deliver a functional MVP under strict deadlines.

EXTRACURRICULAR ACTIVITIES (ECA)

- **Member, CUET Computer Club (CCC)** (2023 – Present)
Engaged in intensive competitive programming sessions and technical workshops. Participated in inter-university contests, solving complex problems.
- **Joint Organizing Secretary, CUET Model United Nations (MUN) Club** (2023 – Present)
Developed advanced **negotiation and public speaking** skills by representing various delegations in committee sessions. Drafted position papers and collaborated on resolutions regarding global technological policies.
- **Member, CUET Debating Society (CUETDS)** (2023 – Present)
Actively participated in parliamentary debates, enhancing **analytical thinking and logical reasoning** abilities. Competed in several inter-departmental tournaments, focusing on clear communication of complex ideas.
- **Track and Field Athletics (Field Events)** (2023 – Present)
Competitive athlete specializing in **Shot Put, Discus Throw, and Javelin Throw** at the inter-departmental level. Demonstrated physical discipline, technical precision, and mental focus.

CERTIFICATIONS

- **Data Science & Python Portfolio** *DataCamp*
Verified portfolio demonstrating proficiency in **Python, Pandas, and Data Visualization**. Completed multiple interactive courses on data manipulation and analysis.
- **Full Stack Development Profile** *freeCodeCamp*
Comprehensive certification profile covering **Responsive Web Design, JavaScript Algorithms, and Data Structures**. Solved 300+ coding challenges and built 5+ certification projects.
- **MatrixMUN Credential** *Credsverse*
Verified achievement in MatrixMUN. Demonstrated excellence in **public speaking, diplomatic negotiation, and conflict resolution** within a simulation environment.

REFERENCES

- **Md. Atiqul Islam Rizvi**
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- **Pratik Dev**
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