**Omar Faruk Sarkar**

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Summery

A motivated and enthusiastic fresh graduate in Physics, aiming to transition into a thriving career in software development. Equipped with a strong foundation in programming and hands-on experience in back-end development, eager to explore and contribute to innovative projects within a dynamic tech environment.

Education

**Chittagong University**, Chittagong, Bangladesh  
Bachelor of Science Honors in Physics (2023)  
Relevant Coursework: Web Development, Data Structures, Algorithms, Object-Oriented Programming (OOP) Concepts

Skills

**Programming Languages:** JavaScript, TypeScript, HTML/CSS

**Frameworks/Libraries:** Node.js, Express.js, React

**Databases:** MongoDB, MySQL

**Version Control:** Git

**Other:** Responsive Design, RESTful APIs, Troubleshooting, Debugging

Projects

**School Management System**  
Developed a comprehensive system for streamlining administrative tasks in educational institutions.**Technologies Used:** Node.js, Express.js, MongoDB/MySQL, JWT, Docker, Postman  
Key Responsibilities:

* Designed and implemented RESTful APIs for efficient data handling.
* Developed robust back-end logic and database schemas.
* Implemented JWT-based authentication for secure access.
* Created detailed API documentation for ease of integration.
* Deployed the application using Docker to ensure scalability.

GitHub Repository: [School Management System](https://github.com/frksarkar/School_REST_Api)

**Twitter Clone**

**Description:** Developed a full-stack Twitter clone application to demonstrate proficiency in web development and real-time communication technologies.

**Technologies Used:** Node.js, Express.js, Pug (template engine), MongoDB (via Mongoose), Bcrypt, Socket.io, Multer, express-validator, Firebase, Nodemon

*Key Features:*

* Implemented secure user authentication and authorization mechanisms.
* Enabled real-time messaging capabilities.
* Integrated MongoDB for data storage and retrieval.
* Handled file uploads for user profile pictures.
* Utilized Pug for dynamic HTML rendering.
* Ensured robust form validation and error handling.
* Configured session management for user interactions.

*GitHub Repository:* [*Twitter Clone*](https://github.com/frksarkar/twitter-clone)

Certifications

[Legacy JavaScript Algorithms and Data Structures](https://www.freecodecamp.org/certification/frksarkar/javascript-algorithms-and-data-structures) (freeCodeCamp, 2023)

Soft Skills

Excellent verbal and written communication skills.

Adaptable and eager to learn new technologies.

Strong analytical and problem-solving abilities.

Ability to work collaboratively in a team environment.