

Toukir Ahmed

📍 Patuakhali Science and Technology University,Dhumki,Patuakhali ✉ ahmed18@cse.pstuac.bd

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Career Objective !

I am a passionate MERN stack developer with hands-on experience in building full-stack web applications using React.js, Node.js, Express.js, and MongoDB. I also work extensively with Firebase for authentication and real-time data, and craft responsive, modern interfaces using HTML, CSS, Bootstrap, and Tailwind CSS.

Alongside web development, I actively engage in competitive programming, leveraging C and C++ to sharpen my problem-solving skills and algorithmic thinking. This blend of frontend finesse, backend expertise, and algorithmic depth enables me to develop robust, high-performance applications. I thrive in collaborative environments, am always eager to learn new technologies, and committed to delivering clean, efficient code that exceeds expectations.

Strengths

- Quick learner, passionate about new technologies.
- Excellent debugging and problem-solving skills.
- Strong understanding of algorithms and clean code practices.

Education

B.Sc.(Engg.)

April 2022 – May 2026

Patuakhali Science And Technology University, Computer Science And Engineering

- GPA: 3.5/4.0
- **Coursework:**
 - Data Structures and Algorithms
 - Object Oriented Programming
 - Database Management Systems
 - Operating Systems
 - Computer Networks
 - Software Engineering
 - Web Programming
 - Artificial Intelligence
 - Compiler Design
 - Theory of Computation
 - Microprocessor and Assembly Language
 - Computer Architecture
 - Numerical Methods
 - Discrete Mathematics
 - Digital Logic Design

Experience

AlgorixIt, Co-Founder Full Stack Web App Developer

- Co-founded AlgorixIt, a technology firm delivering custom software solutions for businesses.

7/A, Dhanmondi,
Dhaka-1209, Bangladesh
April 2023 – Present

- Developed full-stack web applications using **React.js, Node.js, Express.js, MongoDB, Firebase**, and other modern technologies.
- Managed the complete project lifecycle — from gathering client requirements and system design to deployment and maintenance.
- Led integrations of secure payment gateways, user authentication systems, and dynamic dashboards.
- Oversaw UI/UX implementation with **Tailwind CSS, Bootstrap, and responsive design**, ensuring seamless user experiences across devices.
- Provided mentorship and technical guidance to junior developers, fostering a collaborative environment.
- Delivered scalable, high-performance applications tailored to client needs, enhancing their digital presence.

PDC, Full Stack Developer

Niketon, Gulshan-1 ,Dhaka
Jan 2023 – June 2023

- Developed and maintained a MERN stack web application where CA students can purchase courses and register for exams.
- Implemented secure authentication, dynamic dashboards, and integrated payment gateways to handle course purchases.
- Worked with MongoDB for storing course and student data, ensuring data consistency and scalability.
- Added exam modules with question banks and automated result processing.
- Developed and maintained a MERN stack web application where CA students can purchase courses and register for exams.
- Implemented secure authentication, dynamic dashboards, and integrated payment gateways to handle course purchases.
- Worked with MongoDB for storing course and student data, ensuring data consistency and scalability.
- Added exam modules with question banks and automated result processing.

Aurmita , Web Developer & E-commerce Support

Barishal Sadar-8200,
Barishal
Nov 2024 – May 2025

- Designed and managed an online store for books and herbal medicines, improving user experience and conversion.
- Developed features for dynamic product listings, shopping cart, and order management.
- Integrated Firebase for user data storage and secure checkout processes.
- Collaborated on marketing strategies to drive traffic and online sales.

Languages

- English (Professional Proficiency)
- Bangla

Projects

MediCampus

- An online platform to buy medical kits & medicines, built to streamline healthcare shopping.
- Developed a complete e-commerce web application for selling medical kits and medicines.
- Used **Next.js** for server-side rendering & optimized SEO, ensuring fast load times and better discoverability.
- Integrated **Firebase** for secure user authentication & real-time database opera-


<https://github.com/TOUKIR21AHMED/Medi>

tions.

- Implemented an admin dashboard to manage orders, inventory, and view analytics.
- Designed a clean, responsive UI with React and managed state efficiently.
- Added payment gateway & invoice features for seamless transactions.
- **Technologies:** Next.js, React.js, Node.js, Express.js, Firebase


RFID-BASED AUTOMATED BUS FARE COLLECTOR WITH MOBILE APPLICATION

- A smart system to automate bus fare collection using RFID technology integrated with a mobile app.
- Built a hardware prototype using **Arduino** and **RFID readers** to detect passenger cards and automatically deduct fares.
- Developed a **mobile application** that syncs fare data and shows transaction history to passengers.
- Used **Firebase** for storing trip data, user balances, and real-time updates.
- Created a small **Node.js backend API** to process fare rules and integrate hardware data.
- Improved transparency & reduced manual handling by automating the entire fare collection process.
- **Technologies:** Arduino, RFID modules, Android (Flutter), Firebase, Node.js

<https://github.com/TOUKIR21AHMED/RFID-BASED-AUTOMATED-BUS-FAIR-COLLECTOR-with-Mobile-Application> 

GitShelf

- A dynamic web app that fetches and displays all GitHub repositories of a user in animated cards.
- Developed a responsive interface where users enter their GitHub username to view all repositories.
- Integrated **GitHub REST API** to fetch real-time data of user repositories.
- Implemented animated cards to showcase each repo with smooth transitions and hover effects.
- Enhanced user experience with intuitive UI and loading states.
- **Technologies:** React.js, GitHub API, CSS animations

<https://github.com/TOUKIR21AHMED/GitShelf> 

Technologies

Languages: C++, C, JavaScript, HTML, CSS

Library / Framework : React.js, Node.js, Express.js, Next.js, Bootstrap, Tailwind CSS

Database / Other : MongoDB, My SQL, Firebase