



# Ishtiaq Mahmood

Software Developer

✉ ishtiaqmahmood22@gmail.com    ☎ 01793401466    📍 Sylhet  
🇬🇧 Bangladeshi    📅 16/08/1993    🔗 <https://www.ishtiaqmahmood.com>  
♂ Male    🏠 Hybrid    🌐 [github.com/ishtiaqmahmood](https://github.com/ishtiaqmahmood)

## Summary

Highly motivated and detail-oriented Software Developer and Programmer with a strong foundation in software engineering, modern web technologies, and analytical problem-solving. Experienced in designing and developing scalable, efficient, and user-centric applications with a focus on clean architecture and maintainable code. Currently pursuing studies in Physics, bringing a research-driven and logical approach to technical challenges and computational systems. Passionate about emerging technologies, software innovation, and continuous professional growth, with a strong enthusiasm for open-source development, system design, and modern development practices. Recognized for adaptability, fast learning ability, technical curiosity, and the capability to contribute effectively in collaborative and fast-paced environments.

## Professional Experience

2016 – Present Sylhet, Bangladesh	<b>Github</b> Open Source Contributor
04/2021 – 07/2021 Dhaka, Bangladesh	<b>Quantic Dynamics</b> Junior Blockchain Developer
2022 – Present Sylhet, Bangladesh	<b>Freelance</b> Full Stack Web Developer

## Education

2001 – 2009 Sylhet, Bangladesh	<b>Secondary School Certificate</b> Sylhet Govt. Pilot High School
2010 – 2011 Sylhet, Bangladesh	<b>Higher Secondary Certificate</b> Sylhet M.C. College
2012 – 2017 Sylhet, Bangladesh	<b>Bachelor of Science (Honours) in Physics</b> Shahjalal University of Science And Technology (SUST)

## Skills

### Technical Skills

- Full-Stack Web Development
- Frontend Development
- Backend Development
- REST API Development
- Database Design & Management
- Object-Oriented Programming (OOP)
- MVC Architecture
- Responsive Web Design
- Authentication & Authorization Systems
- CRUD Application Development
- Version Control with Git & GitHub
- Debugging & Troubleshooting
- Performance Optimization
- Software Deployment & Hosting
- Linux Server Management
- Cross-Browser Compatibility
- UI/UX Implementation
- Secure Coding Practices
- API Integration
- Caching & Optimization Techniques

### Frameworks & Libraries

- Laravel
- React.js
- Next.js
- Tailwind CSS
- Bootstrap
- Django
- Flask

### Tools & Platforms

- Git
- GitHub
- VS Code
- Composer
- npm
- Linux
- Apache
- cPanel

### Professional Skills

- Problem Solving
- Analytical Thinking
- Team Collaboration
- Communication Skills
- Time Management
- Adaptability
- Continuous Learning
- Technical Research
- Project Management
- Attention to Detail
- Leadership Potential
- Critical Thinking

### Programming Languages

- PHP
- JavaScript
- Python
- SQL
- C++
- Java

### Databases

- MySQL
- SQLite
- MongoDB

### Computer Science & Development Concepts

- Data Structures & Algorithms
- Software Engineering Principles
- Database Normalization
- Client-Server Architecture
- Web Security Fundamentals
- Asynchronous Programming
- SEO Fundamentals
- CI/CD Basics

### Additional Interests

- Open Source Technologies
- Artificial Intelligence & Automation
- Physics & Computational Science
- Modern Software Architecture
- Emerging Technologies
- Tech Community Engagement

## Languages

Bangla

English

## Awards

### Quickdraw Achievement

Github

Awarded by GitHub for rapidly closing issues or pull requests with efficient response and collaboration practices in software development workflows.

### Pull Shark Achievement

Github

Earned for successfully contributing and merging pull requests into collaborative repositories, demonstrating active participation in open-source development.

### YOLO Achievement

Github

Awarded for merging pull requests without requiring code review, reflecting confidence in development workflow management and rapid iteration practices.

### Pair Extraordinaire Achievement

Github

Recognized for collaborative development through co-authored commits and teamwork-oriented contribution practices within GitHub repositories.

## Courses

### Classical Mechanics

Shahjalal University of Science and Technology

Study of motion, force, energy, momentum, oscillation, and rotational dynamics.

### Electricity & Magnetism

Shahjalal University of Science and Technology

Covers electric fields, circuits, electromagnetic waves, and Maxwell's equations.

### Quantum Mechanics

Shahjalal University of Science and Technology

Introduction to microscopic physics and behavior of particles at atomic scales.

### Thermodynamics & Statistical Physics

Shahjalal University of Science and Technology

Study of heat, entropy, gases, and statistical behavior of matter.

### Mathematical Physics

Shahjalal University of Science and Technology

Mathematics used for advanced physics problem solving.

### Computational Physics

Shahjalal University of Science and Technology

Programming and simulation techniques used in physics research.

### Solid State Physics

Shahjalal University of Science and Technology

Study of the physical properties of solids and crystalline materials.

### Nuclear Physics

Shahjalal University of Science and Technology

Study of atomic nuclei, radioactive decay, and nuclear reactions.

### CS50: Introduction to Computer Science

Harvard University — taught by David J. Malan

One of the world's most popular introductory Computer Science courses. Covers algorithms, data structures, memory, programming fundamentals, web development, databases, and computational thinking using C, Python, SQL, and JavaScript. Suitable for complete beginners.

## Introduction to Computer Science and Programming

Massachusetts Institute of Technology

A strong foundation course focused on computational problem-solving, Python programming, algorithms, and abstraction. Widely recommended for students wanting deeper theoretical understanding.

## Algorithms Specialization

Tim Roughgarden

Comprehensive algorithms course covering sorting, graph algorithms, greedy algorithms, dynamic programming, and algorithm analysis. Excellent for competitive programming and technical interviews.

## Data Structures and Algorithms

freeCodeCamp

Practical introduction to data structures, recursion, searching, sorting, linked lists, stacks, queues, trees, and algorithm optimization using JavaScript or Python.

## Projects

2025 – Present

### Portfolio & Personal Branding Website

Tech Stack: Laravel, Tailwind CSS, JavaScript

Designed and developed a fully responsive personal portfolio website featuring dynamic project management, admin dashboard, blog integration, achievements, and optimized UI/UX architecture for professional branding.

05/2025 – 01/2026

### Employer Management System

Tech Stack: Laravel, MySQL, Tailwind CSS, JavaScript

Developed a modern web-based Employee Management System for managing employee records, departments, attendance, and administrative workflows.

Implemented secure authentication, responsive UI, and scalable CRUD architecture to improve organizational efficiency.

2021 – 2023

### Arduino Projects

Tech Stack: Arduino (UNO, Mini, Nano), ESP-32 C/C++, Sensors, Bluetooth Module, Embedded Systems

A comprehensive collection of over 40 Arduino and ESP32 projects, ranging from basic LED blinking to complex robotics and sensor integrations. This repository serves as a learning resource and a portfolio of embedded systems applications.

2021 – 2022

### Doctor Appointment Booking System

Tech Stack: MERN Stack, Tailwind CSS, JWT, Cloudinary

Developed a full-stack MERN-based doctor appointment booking platform enabling patients to schedule appointments, doctors to manage schedules, and administrators to oversee the entire system through role-based dashboards.

Implemented secure JWT authentication, appointment management, profile handling, responsive UI design, and cloud-based image upload integration. Focused on scalable architecture, RESTful API development, and seamless user experience across admin, doctor, and patient portals.

2025 – Present

### Student Consultancy Management System

Tech Stack: Laravel, PHP, MySQL, Tailwind CSS, JavaScript, Bootstrap

Developed a full-stack student consultancy management platform designed to streamline student admissions, consultancy operations, and application tracking processes. Implemented features including student registration, university application management, consultant dashboards, document handling,

authentication, and admin control panels. Focused on secure backend architecture, responsive UI/UX, and efficient workflow management for educational consultancy services.

2022 – 2023

### **MERN HotelFinder (Hotel Booking Platform)**

Tech Stack: MongoDB, Express.js, React.js, Node.js (MERN), Tailwind CSS, JWT Authentication, REST API, Cloudinary

Developed a full-stack hotel booking and management platform that allows users to search, view, and book accommodations while enabling hotel owners to manage property listings and bookings efficiently. The system is built using the MERN stack with a focus on scalability, security, and user experience.

2024 – 2024

### **Student Meal Expense Management System**

Tech Stack: Python, Flask, Bootstrap, Pandas, SQLite

Developed a web-based meal cost management system designed to help students and hostel administrators efficiently track daily meal expenses, contributions, and balances. The system automates meal counting, cost calculation, and monthly reporting to ensure transparency and accuracy in shared living environments.

2024

### **GreenBook**

Tech Stack: Python, Flask, SQLite, Bootstrap

Greenbook is a modern, professional note-taking application built with Flask. It allows users to organize their thoughts, ideas, and tasks with features like categorization, tagging, starring, and collaborative editing.

## **Interests**

- Full-stack web development and building real-world software projects
- Problem-solving and algorithmic thinking
- Technology research and experimenting with new tools and frameworks
- Exploring modern JavaScript frameworks and backend architectures (Laravel, MERN stack)
- Open-source contribution and GitHub project building
- Reading technical blogs and software engineering best practices
- Embedded systems and Arduino-based electronics projects
- Learning system design and scalable application development
- Participating in coding practice and personal development challenges