

Mahir Faysal Haque Dipto

Software Developer

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Education

2022 – current

BSc. In Computer Science & Engineering

East West University, Dhaka

- CGPA 3.70
- Participated in ICPC Regional Selection Competitions twice, representing East-West University.
- Aiming to conduct a thesis on Software and Cybersecurity
- Represented East-West University as the only team in the GenDev Hackathon organized by [ACMEAI](#).
- Completed the following Coursera courses:
 1. [Mathematical Thinking in Computer Science](#) (UC San Diego)
 2. [Programming Fundamentals](#) (Duke University)
 3. [Introduction to Google SEO](#) (UC Davis)

Work experience

Software Developer Lead at Progress IT Solutions

May 2024 – present

Designed and implemented three separate applications to cater to different clients' specific business needs, thereby showing flexibility in managing projects and using technical skills.

- **Project 1: [FFMPEG Video Processor](#)**
 - Developed a C# command line application for a studio company, integrating 15 custom-built video shaders using FFmpeg for video processing. Implemented OpenCV for complex video processing tasks like generating multiple frames between two frames.
 - Implemented FFmpeg command line instructions for video effect generation and combined multiple shaders into a single application for enhanced video processing.
- **Project 2: [HyperSec Platform Integration Collector](#)**
 - Developed a Windows application using C# WPF and WinForms for a cybersecurity company (HyperSec), automating the registration process of domain computers in Windows Event Viewer and simplifying GPO management across multiple domains.
 - Added functionalities like extracting, manipulating, and building new XML files.

Software Developer at East West University

Jan 2024 – Apr 2024

Project Name: EWU Data Automation

- Developed a C# application to extract data from Excel sheets, convert it into JSON format, and store it in a database.
- Streamlined the process of submitting semester result marks, eliminating the need for manual data entry and improving efficiency in handling student records.

Technology stack: C# WPF & WinForms Applications, Python OpenCV, Numpy

Other projects & Achievements

1. [Route Recon](#): Developed a pathfinder game implementing Dijkstra's Algorithm. Used Node.Js for Backend and Dijkstra's Algorithm implementation & React.Js for frontend.
2. [Course Selling Application](#): Developed a Course Selling Web Application while learning React.Js and Full Stack Development (MERN). I have gained hands-on experience with React.js data flow and implementing essential security features.
3. [Blog Posting Website](#): Simple Blog Posting Website with Node.Js, React.Js, MongoDB & Tailwind CSS for Styling.
4. **Inventory Management System (IMS)**: Currently developing a production-level IMS using C# WPF. The system focuses on offline functionality, designed to track and manage small business inventories.
5. [CyberSurface Tech](#): As PC Components & Computer hardware are my interests, I made & published a blog website where I write, review & guide PC & technology-related articles. Learned & implemented SEO to rank my website in Google & trying to upscale my website to a Digital Content Business.
6. **OOP Projects Covered:**
 - [Railway Management System](#)
 - [Chat Application](#) (Socket Programming)
 - [Shop Management System](#)
7. Solved 250+ Problems on [CodeForces](#) and [LeetCode](#) combined.

Tech Stack

- C# (WPF & WinForms Application)
- C/C++
- JavaScript (Node.Js, Express.Js, React.Js, NEXT.Js)
- MySQL, MongoDB
- Tailwind CSS, Bootstrap