

# Mahrab Hossen

Software Engineer

**Uttara, Dhaka, Bangladesh**

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[Portfolio Website](#)



## Career Objective

Motivated Backend Developer with practical experience in PHP/Laravel, database design, full-stack workflows, and automation. Strong problem-solver with solid OOP skills and a focus on creating efficient, maintainable backend systems. Experienced in automation tools such as n8n to boost productivity and reliability. Eager to collaborate with teams and grow through new technical challenges.

## Skills

### Programming Languages & Frameworks

- PHP (Laravel, Cake php), Java, Python, JavaScript, C++

### Backend, Databases & Cloud

- MySQL, SQL Server

### Tools, IDEs & Automation

- n8n, VS Code, XAMPP, Laragon, NetBeans, Android Studio, Git, GitHub

### Simulation, Design & Engineering Tools

- Logisim, EMU8086, Proteus, Multisim, AutoCAD

## Work Experience

### Software Engineer

eGeneration PLC– Kuril, Dhaka, Bangladesh

October 1, 2025 – Present

- Assisting in the LOOOP project by solving documented issues and bugs.
- Involved in the AI\_EGSALES project, I am working on profile scraping to support data collection and analysis.
- Working on automation workflows using n8n, including process integration and task automation.

### Intern (PHP)

eGeneration PLC– Kuril, Dhaka, Bangladesh

July 1, 2025 – 30<sup>th</sup> September 2025

- Developed and maintained web applications using PHP/Laravel and MySQL.
- Implemented REST APIs and role-based authentication for system users.
- Managed version control and collaborated on full-stack development using Git.

## Projects

### Bangladesh Navy Welfare Association – Backend System Development ([link](#))

- Contributed as a Backend Developer to the development and maintenance of a welfare management system for the Bangladesh Navy Welfare Association. Designed and optimized MySQL databases to manage member and family-related data securely and efficiently. Implemented backend features using PHP/Laravel, including data management, authentication, and role-based access control. Improved system reliability and maintainability by resolving issues, optimizing queries, and supporting ongoing feature enhancements to ensure smooth operation of welfare services.

### LOOOP AI Assistant (Japan) – Document Processing & Chatbot Automation

- Developed an AI-powered internal assistant using n8n automation, enabling users to query system documentation through a webhook-based chatbot. Automated PDF document retrieval, text extraction, normalization, and storage into structured data tables. Integrated Google Gemini (LLM) with a controlled prompt system to generate accurate, context-aware responses strictly from stored documentation. Implemented workflow logic for document chunking, data retrieval,

and real-time API-based responses to support issue resolution and knowledge access for the LOOOP system.

### eGsales\_AI – Profile Scraping & Automation

- Designed and implemented an automation workflow using n8n to collect and process public professional profile data. Integrated Google Custom Search API to fetch targeted LinkedIn profile results based on keywords and locations. Automated data cleaning, deduplication, country detection, and structured export to Excel (XLSX) format. Applied JavaScript logic for parsing profiles, extracting metadata, and managing batch-based workflow execution.

### School Management System (ERP)

- Contributed to a comprehensive School Management System using PHP/Laravel, managing student records, fee payments, attendance, and report generation. Designed and optimized MySQL databases for efficient and scalable data handling, and implemented role-based access control for administrators, teachers, and students. Collaborated with team members using Git/GitHub to ensure smooth project workflow and maintain code quality.

### SaaS-Subscription Management System

- Developed a SaaS-based subscription management system featuring automated billing, user subscription handling, and streamlined plan management. Integrated Email by mailtrap and SSLCommerz for payment.

## Education

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<b>B.Sc. in Computer Science &amp; Engineering</b>	<b>2020-2025</b>
IUBAT-International University of Business Agriculture and Technology	CGPA: <b>3.20</b>
<b>Higher Secondary School Certificate Examination</b>	<b>2019</b>
Tongi Government College   Dhaka, Bangladesh	GPA: <b>4.00</b>
<b>Secondary School Certificate Examination</b>	<b>2017</b>
Tamirul Millat Kamil Madrasah  Dhaka, Bangladesh	GPA: <b>4.89</b>

## Language Skills

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- **Bangla:** Native Proficiency.
- **English:** Fluent in listening, speaking, reading & writing.
- **Hindi/Urdu:** Fluent in listening & speaking.

## Interests

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I am interested in web and software development with database management systems.

Love to do:

- Sports: Cricket, football, badminton.
- Hobbies: Travelling, Befriending intelligent humans.