

MALIHA TABASSUM

Software Engineer

PROFESSIONAL SUMMARY

Detail-oriented Software Engineer with 1 year of hands-on experience building full-stack applications and LLM-integrated systems. Skilled in Python, JavaScript, and MERN stack, with expertise in deploying scalable APIs and AI-based chatbots. Passionate about solving complex problems and improving system efficiency using modern cloud and automation tools.

EXPERIENCE

Software Engineer, 11/2024 to 09/2025

Integrated Software & Technologies Ltd.

- Worked on 4+ projects that include features such as biometric authentication, OCR checking, fingerprint extraction, LLM-based chatbots and location tracking.
- Built API endpoints following specifications provided by senior software engineers.
- Enhanced software performance by identifying and fixing bugs through testing and debugging processes.
- Translated customer requirements into written use cases.
- Coordinated deployments of new software, feature updates and fixes.

PERSONAL PROJECTS

Medical Diagnostic Chatbot with LLM and RAG System [GitHub](#) [Live](#)

Developed an AI-powered medical diagnostic system using GPT-4o model

- Implemented LLM for symptom extraction and RAG to enhance diagnosis with relevant medical context.
- Built a test evaluation system to assess diagnostic thresholds and rule out diseases.
- Built and deployed a backend REST API with LLM logic on Azure App Service.

Technologies : LangChain, Azure OpenAI, FAISS, Sentence Transformers, Prompt Engineering, Python

WeavePDF- PDF Formatting Website [GitHub](#)

An interactive PDFtool website that comes with various features.

- Implemented Merging, Editing PDFs, Adding page numbers to PDFs
- Contributed in Speech to Text conversion, Splitting PDF, Markdown to PDF, Word to PDF as Team Lead
- Integrated digital payment gateway (Stripe)

Technologies : React, JavaScript, HTML5, CSS3, Tailwind, Express, Firebase, MongoDB, Mongoose

EDUCATION

BSc. In Information and Communication Engineering, 08/2025

Bangladesh University of Professionals - Dhaka

- 3.96 CGPA
- Thesis Statement: Real-time Explainable Conversation AI for Early Diagnosis with Large Language Model

CONTACT

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[LinkedIn](#) [Portfolio](#) [GitHub](#)

SKILLS

Programming Languages: Python, JavaScript, C, C++

Frameworks & Libraries: Node.js, React.js, Express.js, LangChain, Tailwind CSS

Databases: MongoDB, MySQL, PostgreSQL

Cloud & Tools: n8n, Zapier, Docker, Azure, Firebase, Git, Postman, Swagger

Web Technologies: HTML5, CSS3, REST APIs, JSON, JWT Authentication

Machine Learning & AI: Large Language Models (Llama, OpenAI), LangChain, Prompt Engineering, RAG

Development Practices: Agile Methodologies, CI/CD, Debugging, Version Control, Unit Testing

Operating Systems: Linux, Windows

CERTIFICATIONS

[Azure Fundamentals](#) , 09/2024

[Complete Web Development Course by Programming Hero](#) , 12/2023

HONORS & ACHIEVEMENTS

- Ranked among the top CGPA holders in the Faculty of Science and Technology, BUP
- Recipient of BUP Merit Scholarship for all 8 semesters
- Awarded Dean's Appreciation Letter in final 2 semesters
- Champion, Presentation Competition, International Industrial Activities Conference 2024 (INDCon 2024)

EXTRA-CURRICULAR ACTIVITIES

- Beta Student Ambassador** at Microsoft Learn (July 2023 - present)
Mentored peers through technical sessions, contributed to community-building initiatives, and participated in AI-focused projects
- Vice President** at BUP Robotics Club (February 2024 - August 2025)
Organized offline and online technical events, managed volunteer teams, and anchored multiple institutional programs.