Maliha Tabassum

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EDUCATION

Bangladesh University of Professionals (BUP)   Dhaka, Bangladesh
Bachelor of Science in Information and Communication Engineering   Nov 2021 – Sept 2025
CGPA: **3.96/4.00** (Highest in Batch)
Thesis: *Real-time Explainable Conversational AI for Early Diagnosis Using Large Language Models*

SKILLS

Programming Languages: Python, JavaScript, C, C++
Frameworks & Libraries: Node.js, React.js, Express.js, 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: LLMs(Llama, OpenAI), LangChain, Prompt Engineering, RAG, CAG, KAG

EXPERIENCE

Software Engineer   Nov 2024 – Sept 2025
Integrated Software & Technologies Ltd.
Worked on multiple production-level projects involving biometric authentication, OCR verification, fingerprint extraction, LLM-based chatbots, and location tracking systems. Developed and maintained RESTful API endpoints aligned with system specifications and integration requirements. Improved software performance through systematic testing and debugging, translated customer requirements into clear use cases, and coordinated deployments of new features, updates, and bug fixes.

PROJECTS

- **Medical Diagnostic Chatbot with LLM and RAG System**   *GitHub — Live*

  Developed an LLM-powered medical diagnostic chatbot with symptom extraction and a RAG pipeline to enhance diagnostic reasoning using relevant medical context. Built an evaluation framework to assess diagnostic thresholds and deployed a backend REST API with LLM logic on Azure App Service.

- **WeavePDF – PDF Formatting Website**   *GitHub*

  Built a React-based PDF processing tool supporting merging, editing, and page numbering. Led implementation of advanced features including speech-to-text, document conversion, and integrated Stripe for secure digital payments.

CERTIFICATIONS

Azure Fundamentals (AZ-900), Microsoft Learn   2024

EXTRACURRICULAR ACTIVITIES

Beta Student Ambassador, Microsoft Learn   Jul 2023 – Present
Mentored peers through technical sessions, and participated in AI-focused projects,