Sihab Howlader

Mobile App Developer | Generative AI & Agentic System Enthusiast

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summary

Passionate Software Engineering undergraduate with hands-on experience in building production-ready mobile applications and AI-powered systems. Skilled in Flutter, Generative AI, and multi-agent architecture, with a track record of leading real-world projects and managing large-scale technical events. Strong team player and problem-solver, committed to combining AI and mobile development to create impactful solutions.

Professional experience

Software Engineer I | Techjays
Jul 2025 - Present

As a Software Engineer at TechJays, I work on their in-house AI application, leading efforts to make the product live and production-ready. My core responsibilities include integrating APIs, implementing AI-powered features, conducting code reviews, and ensuring smooth deployment and system performance.

Course Coordinator | Q-Bit Learning
Jan 2025 - Mar 2025

Coordinated course planning, module structure, and delivery schedules across multiple subjects including Data Structures, Algorithms, and Machine Learning.
Supervised curriculum quality, assigned instructors, and ensured timely delivery of online classes and assignments.
Managed communication between students, mentors, and the technical support team.

Executive Member | BASIS Students Forum – DIU Chapter
Dec 2025 - Present

- Actively involved in planning and executing tech-focused events, seminars, and workshops.
- Supported industry collaborations and facilitated student engagement in tech entrepreneurship and skill development initiatives.

Research & Event Organizing Executive | Data Science Club, DIU
Dec 2023 - Present

- Conducted internal research and technical documentation for club-driven AI and data science initiatives.
- Assisted in organizing educational outreach programs and contributed to curriculum design for AI/ML workshops.

Lead Volunteer | 4th National Data Science Summit 2024
Dec 2024 - Dec 2024

- Managed end-to-end logistics for the summit, including guest coordination, sponsor handling, food management, and venue preparation.
- Successfully executed four parallel tech events: Promptcraft Challenge, Project Showcasing, Data Hackathon, and Poster Presentation.
- Oversaw a large volunteer team and ensured smooth operations under the supervision of the Data Science Lab and Department of Software Engineering.

Organizer - Workshops and Competitions
July 2023 - Present

- Organized the Python Workshop under the Data Science Lab and Club
- Hosted the MLOps in Action Workshop, introducing tools like Docker and GitHub Actions.
- Conducted Intro to Git and GitHub sessions twice (in 2024 and 2025).
- Organized the Agentic AI Project Showcase under the Department of Software Engineering.
- Coordinated the Agentic AI Competition for Web Development and E-commerce Solutions

Projects

Title: Police Forensic App [InsightPOL](#)   **Jan 2025- Present**

Flutter, Webhooks, API Integration
- There was a significant communication gap between police officers and forensic teams, especially when it came to sharing digital evidence securely. So, I developed a robust Flutter application that made it easy to submit media like images, videos, and documents while supporting real-time messaging. The most difficult part of this project was implementing the real-time chat using webhooks. I had to work through issues related to message synchronization and delivery, which I overcame by optimizing backend logic and refining socket event handling.

Title: Meta Business Agent (Message Automation Tool)   **Sep 2024- Oct 2024**

Streamlit, GROQ API, DeepSeek LLM, OCR, Multi-Agent Architecture
- Problem: Lack of intelligent, centralized academic support tools for university students.
- Solution: Developed a scalable, agentic AI system providing admission help, academic assistance, OCR-based form handling, and routine automation.
- Challenge Solved: Designed a no-human-touch pipeline for customer engagement that runs across Facebook, Instagram, and WhatsApp APIs.

Title: HR Automation System   **Oct 2024- Oct 2024**

AI-Powered Screening, Recruitment Automation
- Problem: High cost of using traditional paid AI APIs for chatbots and LLM apps.
- Solution: Built a free-to-use AI chatbot using GROQ's open LLMs, maintaining a ChatGPT-like experience.
- Challenge Solved: Implemented rule-based and ML-based screening to ensure hiring decisions were data-driven and unbiased.

Title: Murphys_AI   **Mar 2024- Apr 2024**

Flutter, GROQ, LLM Integration
- Problem: Time-consuming and error-prone manual hiring processes.
- Solution: Built a free-to-use AI chatbot using GROQ's open LLMs, maintaining a ChatGPT-like experience.
- Challenge Solved: Integrated alternative LLMs while preserving response quality and app responsiveness in Flutter.

Title: Mart VPN   **July 2023- Sep 2023**

Flutter, Network Configuration
- Problem: Users required an easy-to-use, mobile VPN for privacy and secure browsing.
- Solution: Developed a simple, effective VPN app in Flutter for fast and secure internet access.
- Challenge Solved: Managed network configurations and performance optimization for cross-platform deployment.

CERTIFICATIONS

Generative AI Engineer Path | [Scrimba](#)

- Completed a structured learning path covering prompt engineering, LLM integration, and generative workflows using Python and modern AI tools.

Skills

Flutter, Django	**AWS, Firebase, MongoDB**	**Leadership**
Generative AI	**Jupyter, Docker**	**Public Speaking**
Java, C, python, js	**NLP**	**Content Writing**
RAG, Bloc, GetX, MVVM	**flask, API**	

Education

B.Sc in Software Engineering   **Sep 2023 - Sep 2027**

Daffodil International University
CGPA- 3.33

Additional information

- **Languages:** English, Bengali [Native]
- **Certifications:** [Generative AI Engineer Path](#), Scrimba ‖ Participant, NASA International Space Apps Challenge 2024