

Abrar Mahmud Hasan

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SUMMARY

Computer Science student with a strong problem-solving mindset and hands-on experience in developing AI powered full-stack applications. Contributed to production-grade ERP and web systems, and now transitioning toward AI engineering with a solid foundation in Python, machine learning, and real-world software development.

EDUCATION

- **Islamic University of Technology** CGPA 3.80/4.00
Bachelor of Science in Computer Science & Engineering
Expected Graduation: August 2027
- **Notre Dame College, Dhaka** GPA 5.00/5.00
Higher Secondary Certificate

EXPERIENCE

Shahrish Engineering & Construction Limited December 2024 - September 2025
Junior Software Engineer

- Designed and delivered production-grade web and ERP solutions using **React**, **Tailwind CSS**, and **Django**, including the company's official website and internal supply-chain modules that improved workflows and **reduced manual data handling by 90%**.

PROJECTS

- **CurioKids (React Native + Node + Firebase + AI)**: Built an AI-driven learning app for kids with personalized puzzles, gamification, parental controls, and real-time progress tracking using Firebase Authentication and Firestore.
- **HealthX (React + Node + Firebase + Gemini)**: Hackathon winning AI powered application bridging the gap in medical support for Bangladesh's Hill Tracts and Rural Regions.
- **Ecommerce Backend (Spring Boot + SQL)**: Implemented a secure ecommerce backend with JWT-based authentication, product and order management, RESTful APIs, and a layered architecture with input validation.
- **Predictive Modeling for Agriculture (Python & Scikit-learn)**: Developed a supervised ML model with feature selection to identify the most predictive soil attribute (N, P, K, or pH) for crop-type classification.

PROGRAMMING SKILLS

- **Languages**: Java, Python, C#, C++, JavaScript, SQL, HTML/CSS
- **Frameworks**: React, React-Native, NextJS, Spring Boot, Django, MongoDB, RestAPI, Git, Docker, Firebase
- **Data Science & ML**: *Supervised Learning*: Linear/Logistic Regression, Decision Trees, k-NN, SVM, *Unsupervised Learning*: k-Means Clustering, Hierarchical Clustering, *Tools & Libraries*: Scikit-learn, Pandas, NumPy, Matplotlib

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

- **Joint Secretary**, IUT Computer Society December 2025 - Present
 - Organized and supported technical workshops, coding events, and seminars for university students.
 - Collaborated with cross-functional teams to manage event logistics and member engagement.
- **General Secretary**, Notre Dame Science Club May 2022 - May 2023
 - Led administrative operations, meeting coordination, and inter-school event planning.
 - Managed documentation, communications, and execution of science fairs and competitions.

AWARDS & ACHIEVEMENTS

- **1st Runner-up**, Future Builders 2025 AI Driven Cognitive Innovation Hackathon
- **Champion**, Robi 10 Minute School ICT Olympiad
- **Participant**, ACM ICPC Dhaka Regionals