

4 December 2025

Hiring Manager

Walton Hi-Tech Industries PLC

Bashundhara R/A, Dhaka

Subject: Application for Internship Position

Dear Hiring Manager,

I am applying for the internship opportunity at Walton Hi-Tech Industries PLC. I have completed all academic courses for my B.Sc. in Computer Science & Engineering. With practical experience in data analytics, trend analysis, machine learning, business data insights by collecting, organizing, analyzing data using python, Excel, structured documentation presentation, I am eager to apply my knowledge in Walton's business analysis task and learn from the ongoing process.

My highlighted academic projects such as the *Dengue Case Prediction*, *Medical Deases Prediction*, *bKash Case Study* all these allowed me to work closely with real-world datasets using Excel, python, pandas, scikit-learn, visualization tools to analyze trends prediction, generate insights, cleaning, sorting data; product analysis, review, improvement. These experiences align strongly with the requirements for data collection, analysis, reporting, and supporting decision-making.

In addition, my part time work experience at *10 Minute School* and internship experience at *9AM Solution* helped me develop accuracy-focused detailed documentation, business understanding, presentation, cross-team communication, understanding client requirements, structured task management skills, working in agile methodologies, essential for client requirements, user stories, creating presentation materials, and technical specifications. I am comfortable working with stakeholders to clarify needs, validate information, and support project timelines.

I am particularly attracted to this role because Walton operates at the intersection of manufacturing, business intelligence, and large-scale operational systems. I am eager to apply my analytical mindset to support process optimization, assist in testing new systems, conduct market research, and contribute to data-driven business operations.


Thank you for your time and consideration. I am looking forward to a positive response.

Sincerely,

MD. Shahidul Islam Prodhan

MD. SHAHIDUL ISLAM PRODHAN

Internship Program | TECHNOQUEST

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SUMMARY

A final-year Computer Science & Engineering undergrad with hands-on experience in machine learning, data mining, intelligent system. Built projects like Medical Assistant System and Dengue Prediction Model. Familiar with cloud computing and low code tools. Strong communication, collaboration and problem-solving skills with ever evolving learning mindset. Continuously refining understanding of AI/ML through coursework, competitive projects, and independent research and motivated to apply knowledge and gain hands on experience in the real-world environment.

EDUCATION

BSC. IN COMPUTER SCIENCE AND ENGINEERING

Green University of Bangladesh

Current Semester – Level 4, Term 2

September 2021 – Present

- Current CGPA – 3.02

HIGHER SECONDARY SCHOOL CERTIFICATE (HSC)

Dhaka College

Concentration: Science

July 2017 – June 2019

- GPA – 5.00

SECONDARY SCHOOL CERTIFICATE (SSC)

A.K. School & College

Concentration: Science

2008 - 2017

- GPA – 5.00

HIGHLIGHTED ACADEMIC PROJECTS / CASE STUDY

DENGUE CASE: PREDICTING DISEASE SPREAD (A DRIVEN DATA COMPETITION PROJECT PROBLEM)



Data Mining + ML | Data Engineering, Statistical Analysis & visualization ([GitHub](#))

- Developed a predictive model for forecasting weekly dengue cases using climate and epidemiological data, using XGBoost, Random Forest, and Ensemble Stacking techniques to improve accuracy by data Preprocessing & Feature Engineering: Implemented data cleaning, missing value imputation, and feature selection to improve model performance and prediction,
- Increased accuracy from 24% to 59% using this method and 50% decreased in error and visualized results using matplotlib and seaborn.

MEDICAL ASSISTANT SYSTEM – ML-BASED DISEASE PREDICTION WITH OCR INTEGRATION



Machine Learning | Python, scikit-learn, SVC, Tkinter, Tesseract OCR

- Developed a terminal- and GUI-based intelligent system to predict diseases based on user-input or OCR-extracted symptoms. Trained a Support Vector Classifier (SVC) on a labeled medical dataset to identify diseases from symptoms with high accuracy.
- Integrated Tesseract OCR to extract symptoms from medical images (e.g., prescriptions), improving system usability. Designed a Tkinter-based user interface for input, prediction, and output of disease details including medication, diet, and workout plans.
- Achieved accurate real-time disease prediction; modular architecture ensured extensibility and future deployment potential.

A CASE STUDY ON MFS – BKASH APP

Information System & Design | System Analysis, SDLC, Project Management

- Conducted product analysis of bKash, including audience, features, tech stack, and SWOT; assessed UX and identified improvements like AI-driven financial tools, blockchain transparency, fraud detection, gamified savings, and offline NFC payments.

SMART UNIASSIST: AN INTELLIGENT WEBAPP FOR STUDENTS

Integrated Design Project Lab | HTML, CSS, React, JavaScript, Django

- Developed "Smart UniAssist," an academic management app to help university students track progress, manage tasks, and access personalized courses and career recommendations.
- Limitation: Data Diversity. Used synthetic dataset to work with the project due to unavailability of real dataset and time constraints.

WORK EXPERIENCE

10 MINUTE SCHOOL

Lecture Content Creator | HSC & SSC

July 2022 – January 2023

- Creating Illustration, Design in PowerPoint for lecture slides & animation.
- Annotation, correction, clarity check from lectures slides from books & various materials.
- Keeping track of pending lecture slides, upcoming tasks, deadlines, routines, and other related activities in Excel/Sheets.

Annotator | HSC & SSC

September 2021 – June 2022

- Curated & Created lecture content slides for the daily lectures of teacher from PDFs & other materials.
- Typing from docs, pdf books & various materials content as per requirements.

TECHNICAL SKILLS

- **Data Analytics & Visualization:** Python (pandas, matplotlib, seaborn, scikit-learn), Excel, Power BI (*Learning*)
- **Cloud Computing:** Google Colab, Github Pages, AWS (*Learning*)
- **AI & Low-Code Tools:** Github Copilot, MS Copilot (Certified), Claude, Gemini & ChatGPT
- **Programming:** Python, C, C++, Java, JavaScript | **Web:** HTML, CSS, Tailwind CSS, React
- **Tools:** Git, GitHub, VS Code, PyCharm, Cursor-AI, Linux (OS/WSL), AutoCAD, Figma, Lucid Chart, Canva
- **Documentation & Office Tools:** Microsoft Office, G-Suit, Latex – Overleaf

LANGUAGE SKILLS

1. Bangla (Native)
2. English (Full Professional Proficiency)
3. German (Elementary - A1)

PARTICIPATIONS / CERTIFICATIONS / VOLUNTEERING

- Completed certification coursework “Prompting with Microsoft Copilot” by Microsoft with badge. (2024)
- Participated in departmental project poster showcasing competition - Integrated Design Project 1 & 2 (2024)
- Participated in various programming seminars (such as Python for Industry) (2023)
- Participated in intra-departmental programming sessions by GUCC (2021-2022)
- Participated in International Youth Math Olympiad (IYMO) (2020)
- Participated in organizing events of Dhaka College Science Club Exposition (2018)
- Volunteering at Dhaka College English Language Club (2018)

ONLINE PARTICIPATIONS & CERTIFICATIONS

- Participating in NetCom Learning’s AI Agent Competition (ongoing)
- Online Coursework by Programming-Hero for Web development (ongoing)
- Completed certificate coursework on Coursera “New Models of Business in Society” (2020)
- Completed certificate coursework on Coursera “Data Science Math Skills” (2020)

REFERENCES

Prof. Dr. Md Saiful Azad

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