

Israk Ahmed

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SUMMARY

Software Engineer skilled in full-stack development, Android apps, and AI-powered systems. Proficient in Python, PHP, Java, and REST API development, with experience delivering scalable, efficient software solutions.

PROGRAMMING SKILLS

Languages: C, C++, Java, PHP, Python, JavaScript

Technologies: Laravel, Node.js, Express.js, MySQL, Android (Java/XML), PyQt5, REST APIs, MongoDB, Git, Docker

Machine Learning: scikit-learn, TensorFlow, Keras, Pandas, OpenCV; data preprocessing, transfer learning, fine-tuning, model evaluation.

PROJECTS

Sentinel

[GitHub](#)

AI-powered surveillance system built with deep learning (CNN+LSTM) to detect abnormal activities such as fighting, fire, and accidents from live CCTV streams. Features RTSP streaming, real-time alerts, and interactive visualization. Achieved 83% binary and 81.25% multi-class accuracy on a 42-min dataset.

Real-Time Bangla Sign Language Interpreter

[GitHub](#)

Real-time BdSL interpreter using YOLOv8 for detection and ConvNeXt for recognition, trained on 11,774 images across 49 classes. Achieved 98.03% test accuracy with real-time visualization, Bangla sentence formation, and text-to-speech output.

LanCon

[GitHub](#)

Android LAN chat & file-sharing app for offline local Wi-Fi communication.

COMPETITIVE PROGRAMMING

ICPC Dhaka Regional: 2022, 2023, 2024 | IUT IUPC 2024

EDUCATION

TMSS Engineering College

Passing Year: 2025

Affiliated with University of Rajshahi

B.Sc. in Computer Science and Engineering

CERTIFICATIONS

Google Project Management (Coursera, 2024) | **Software Engineer** (HackerRank, 2024) | **Software Engineer Intern** (HackerRank, 2024) | **SQL (Basic)** (HackerRank, 2023) | **Problem Solving (Basic)** (HackerRank, 2023) | **Introduction to OOP with Java** (Coursera, 2022)

LEADERSHIP EXPERIENCE

President, TEC Programming & Robotics Club

Aug 2022–Aug 2023

Organized programming contests, conducted workshops, and managed club operations.