

# IHSAN MD. AL-AQIB

*Software Engineer | Mobile Application*


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## PROFESSIONAL SUMMERY

I'm a software engineer with **4 years of experience** building scalable and user-focused applications. I enjoy learning new technologies, solving complex problems, and creating practical solutions that make everyday tasks easier.

## PROFESSIONAL EXPERIENCES

03/2023 – Present
Dhaka, Bangladesh

**Software Engineer (Mobile Application)**
BJIT Limited
Worked on native Android and cross-platform mobile development using Kotlin, Jetpack, Compose, CameraX 2.0 API, ExoPlayer, FFMPEG, and MVVM with contributions to AI (LLM), AR, and 3D model integration to enterprise-level projects.

11/2022 – 02/2023
Dhaka, Bangladesh

**Trainee Software Engineer (Mobile Application)**
BJIT Academy
Learned Kotlin, XML, ViewModel, Android Lifecycle, RoomDB, Retrofit, and API integration following the MVVM pattern. Built two projects featuring RESTful API integration and local data management.

01/2022 – 04/2022
Dhaka, Bangladesh

**Software Engineer Intern**
Bengal Software Ltd.
Worked on ReactJS, Node.js/Express, and Nginx. Experienced in deploying full-stack apps on DigitalOcean.

## TECHNICLE SKILL

**ERP Development**
- Python Programming & ORM
- XML & Access Control
- API Integrations
- QWeb Templates

**Tools & Platforms**
- Git & GitHub, Gerrit
- GitHub Projects, Jira, Redmine
- Firebase (Auth, Firestore, Realtime DB)
- Google Maps, OpenWeatherMap APIs
- DigitalOcean, Nginx

**AI & AR**
- Python, FastApi, Django
- LLM/SLM -> Pytorch, Numpy, Scikit learn, Ollama, HuggingFace
- ARCore -> SceneForm/SceneView, Accelerometer and Gyroscope

**Programming Languages**
- Java/Kotlin/Dart
- Python
- JavaScript
- HTML/CSS
- SQL (MySQL)
- PHP (Academic)
- C / C++ / C# (Academic)

**Mobile Development**
- Android SDK, Kotlin, Java, XML, Jetpack Compose
- RoomDB (SQLite), Dagger Hilt
- MVVM, Live Data, Flow, Retrofit, ViewModel
- CameraX API, ExoPlayer, FFMPEG
- Flutter (cross-platform), GetX, Riverpod

## PROJECTS

**Bjit_ERP & MiniERP (Odoo, Python[3.7,3.10], Django & XML)**
Migrated BJIT ERP modules (Django-XML based) from Odoo 11 to Odoo 16. Customized Odoo 16 modules based on client requirements and developed localization support for previously unsupported regions.

**AI Diary Genaration App (AI, SLM, Python, FastAPI, Flask), Jasmy Labo AI**
This app module analyzes images and location to provide features like itinerary plan generation. Worked on converting ViT models for Android deployment using ai-edge-torch and ExecuTorch. Researched small language models (SLMs) from Ollama and HuggingFace and implemented KMeans clustering and image embeddings.

**AR Navigation App – Android (Jasmy Labo)**
This Android module has interactive AR-based navigation using ARCore, Sceneform, and OpenWeatherMap data. Integrated 3D animations and calibrated direction using gyroscope and accelerometer.

**In-App-Camera Module (Jasmy Labo)**
This module implemented CameraX 2.0 for photo capture, cropping, and video recording. Combined images/videos using FFMPEG for advanced processing.

**Smart Travel Focused Diary App (Flutter + JAVA+ AI), Jasmy Labo**
This Flutter app for sharing journey/trip memories and related travel information specially focuses on travel image memories and location.

**CricPlanet**
This is an Android app was developed for displaying cricket match details, live match, player career and related cricket information using the Sportmonks API.

## EDUCATIONS

2018 – 2022
Dhaka, Bangladesh

**BSC in Computer Science and Engineering**
AMERICAN INTERNATIONAL UNIVERSITY - BANGLADESH
*Faculty of Science and Technology* | CGPA: **3.70** / 4.00

## ACADEMIC RESEARCH

**Thesis**
Attendance Monitoring System by Face Recognition using Deep Learning Technology and Computer Vision

## Certifications

**Flutter & Dart - The Complete Guide [2024 Edition]**
Udemy

**Supervised Machine Learning: Regression and Classification**
Coursera | DeepLearning.AI (Stanford)

**Thesis - Attendance Monitoring System by Face Recognition using Deep Learning Technology and Computer Vision**

## ACADEMIC PROJECTS

**EMED**
[C#(WFA), MySql, SSMS 2019]
GitHub: Ihsan28/EMED
It's a hospital management system where patient can take appointment, doctor prescribe, patient reports, all this type of task done here.

## Professional Competencies

- Proficient in clean architecture (MVVM, OOP, SDLC) and system analysis.
- Adaptive learner with experience in both enterprise and R&D environments.
- Effective communicator with leadership in Agile/Scrum teams.
- Experienced in independently managing and prioritize tasks independently.