

Nafees Ahmed Shihab

Lead Flutter Developer & Mobile Architect

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PROFESSIONAL SUMMARY

Accomplished cross-platform Lead Mobile Application Developer and Mobile Architect specializing in Flutter (Dart), Android & iOS systems, and AI-augmented software engineering. Sole mobile engineer at current organization directing the full product lifecycle — from system flowcharts and Clean Architecture to client demos, API verification, and complete Google Play & Apple App Store distribution. Directs agentic workflows to rapidly architect, scaffold, and deploy companion full-stack services (Python FastAPI, SQLite on Render) and responsive web platforms with complete transparency regarding native mobile specialization.

TECHNICAL SKILLS

Core & Architecture:	Flutter (Primary Craft), Dart, Android & iOS Architecture, Clean Architecture, MVVM, SOLID, OOP, Dependency Injection
State & Concurrency:	Provider, Riverpod, GetX, Reactive Programming, Streams, Futures, Event-Driven Architecture
Security & Cryptography:	PKI Architecture, Asymmetric Cryptography, Digital Signatures, Certificate & Trust Management, Data Integrity
Backend, Data & QA:	Firebase, RESTful APIs, SQLite, Hive, SharedPreferences, Cache Interceptors, CI/CD, Unit & Widget Testing
AI & Agentic Full-Stack:	Autonomous AI Coding Agents (Google Antigravity, Claude Code / Dev), Agentic Workflows, Tool-Use & MCP, Prompt Engineering; AI-directed companion full-stack delivery: Python (FastAPI), SQLite, Render Cloud, HTML5/CSS3/JS
Mobile AI & Hardware:	Google ML Kit (Face Detection, Liveness Verification), TensorFlow Lite, QR/Barcode Generation, POS Printers, RFID/IoT, Native Channels

WORK EXPERIENCE

Lead Flutter Developer & Mobile Architect · Spectrum IT Solutions Ltd.

AUG 2023 – PRESENT

- Architect and develop high-performance cross-platform mobile apps using Provider, Riverpod, and GetX under modular Clean Architecture.
- Engineer enterprise cryptographic verification systems for secure, tamper-proof offline credential validation and digital signature integrity (TCB national portal serving 10M+ beneficiaries).
- Single-handedly manage Google Play Console and Apple App Store Connect — configuring signing keys, iOS provisioning profiles, TestFlight builds, privacy compliance, and production rollouts.
- Conduct thorough pre-release API testing (Postman, network payload verification) and edge-case auditing to guarantee zero-defect frontend-backend integration.
- Deliver technical demonstrations, sprint walkthroughs, and system flowcharts for enterprise & government clients, translating business requirements into structured engineering milestones.
- Implement Google ML Kit for biometric face detection and real-time user liveness verification.
- Leverage autonomous AI coding agents (Google Antigravity, Claude Code / Dev) to scaffold companion microservices (FastAPI/SQLite on Render) and accelerate development workflows.
- Direct end-to-end delivery from requirements analysis to production release; mentor interns and lead mobile code reviews.

Freelance Flutter Developer · Independent Engagements / Remote — SEP 2021 – JUL 2023

- Delivered complete cross-platform e-commerce solutions with interactive catalog, reactive cart, checkout, and payment gateways.
- Developed lightweight, scalable mobile applications backed by Firebase, custom REST endpoints, and third-party SDKs.
- Built AI-enabled mobile capabilities: image-to-text, generative text-to-image workflows, and chatbot interfaces.
- Emphasized pixel-perfect responsive UI, 60 FPS performance, low-memory footprints, and maintainable modular code.

Co-Owner & IT Executive · AALO Limited — APR 2019 – AUG 2021

- Managed enterprise IT infrastructure, cloud services, system maintenance, and corporate network operations.
- Supervised digital media workflows, brand growth strategy, and multi-channel marketing campaigns.

Undergraduate Teaching Assistant (OOP & Data Structures) · Daffodil International University — JUL 2016 – MAY 2018

- Assisted department head in conducting Object-Oriented Programming (Java), Data Structures, and lab problem-solving sessions.

KEY PROJECTS & IMPLEMENTATIONS

TCB Smart Family Card Sheba

Flagship high-scale government portal serving 10M+ beneficiary family cards nationwide. Cryptographically secure offline verification and digital signature validation with sub-second response times; ML Kit biometric liveness check; integrated e-commerce module for subsidized goods ordering; resilient offline SQLite/Hive caching.

Flutter • Government • Cryptographic Security • E-Commerce • ML Kit • High Scale

Chattogram Zoo — Ticketing & Management

Full-scale zoo ticketing and operations management platform deployed on Sunmi POS hardware, handling 5,000+ daily visitors. Dual Admin/Seller dashboards with role-based access, rapid ticket issuance (<1s thermal printing), cancellation workflows, and real-time revenue analytics.

POS • Thermal Printer • Admin/Seller Dashboard • Sales Mgmt • Reports • Sunmi Store

Automated Presence & Feedback

Complete attendance platform supporting 500+ active field personnel with continuous background location tracking & geofenced auto check-in/out (<5m accuracy), selfie attendance verification, digital leave approvals, and citizen directory for govt services.

Selfie Attendance • Location Tracking • Auto Check-in • Dashboards • Play Store • App Store

Officers' Club Dhaka (OCD)

Digital management portal for Bangladesh's prestigious Officers' Club. Digital membership & ID card issuance, facility/event booking with availability management, billing & subscription tracking, service request/complaint workflow, and admin oversight panel.

Member Management • Booking System • Admin Portal • Play Store • App Store • Flutter • iOS

Novotheatre eTicket

Official digital ticketing platform for Novotheatre featuring real-time seat reservation, show scheduling, digital ticket issuance with secure QR entry verification, and integrated payment gateways.

E-Ticket • Seat Reservation • QR Verification • Payment Gateway • Play Store

Gazipur City Corporation ("My GCC")

Comprehensive city services app for Gazipur residents. Trade license status check & renewal tracking, grievance/complaint management, municipal document access, tax & utility bill payment integration, and ward-wise push notifications.

E-Government • Trade License • City Services • Play Store • Flutter

Upokari — Smart Digital Identity Solution

Secure digital identity platform to simplify identity verification, user management, and service access. Features digital identity profiles, fast verification, secure data handling, real-time status updates, and multi-purpose usage for organizations and individuals.

Flutter • iOS • Digital Identity • Verification • Security • Play Store • App Store

AI-Directed Full-Stack Systems & Web Platform

Demonstrates agentic AI orchestration in practice: As a specialized Flutter Developer, acted as technical director defining schemas, RESTful contracts, and constraints — directing autonomous AI agents (Google Antigravity, Claude Code) to scaffold, validate, and deploy Python (FastAPI) microservices, SQLite persistence, Render cloud hosting, and responsive web platforms.

Agentic AI • Technical Architecture • Python FastAPI • SQLite • Render Cloud • HTML5/CSS3

EDUCATION

BSc in Computer Science & Engineering • Daffodil International University — 2015 – 2019

Focus: Software Engineering, Data Structures, Algorithms, OOP

HSC (Higher Secondary Certificate) – Science • Government Science College, Tejgaon — 2012 – 2014

GPA: 5.00 / 5.00

SSC (Secondary School Certificate) – Science • Jatrabari Ideal High School & College — 2010 – 2012

GPA: 5.00 / 5.00

TOOLS & ADDITIONAL PROFICIENCIES

Development & DevOps Tools

Git, GitHub, GitLab, VS Code, Android Studio, Xcode, Postman, Render Cloud, Docker basics, CI/CD workflows, Hive, SQLite.

Design, Media & Languages

UI/UX Prototyping (Figma), Camtasia, Filmora, English (Professional Working), Bengali (Native).

REFERENCE

Dr. Syed Akhter Hossain • Dean, Faculty of Science and Information Technology, Daffodil International University

Lead Supervisor in Project Research • Contact available upon request