



MD Saiful Hossain

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ABOUT ME

Software Engineer with 4+ years of professional experience in cross-platform mobile application development using Flutter. Holds a Bachelor's degree in Computer Science and Engineering with strong foundations in algorithms, data structures, and software architecture. Early adopter of AI-assisted development tools (Cursor, GitHub Copilot, Augment, Claude Code) in daily engineering work. Experienced in delivering production-ready, offline-first applications and scalable mobile systems for real-world problems.

EDUCATION AND TRAINING

BSc in Computer Science and Engineering (CSE)

Uttara University — Dhaka, Bangladesh

01/01/2019 – 31/12/2022 | Level in EQF: EQF level 6 | CGPA: 3.50 / 4.00

- Software engineering principles, data structures, and algorithms
- Mobile app development using Flutter
- Backend development with Firebase and REST APIs
- Database design (SQL/NoSQL)
- Object-oriented programming (Dart, Java, C++)
- Software testing, debugging, Git version control, and collaborative development
- Final year project: Veterinary Doctor mobile application using Flutter & Firebase

WORK EXPERIENCE

Software Engineer (Project Maintainer, Mobile)

Lazycoders LLC (formerly Right Brain Solution Limited) — Dhaka, Bangladesh

07/08/2022 – Current

- Own the mobile side of Appza, a no-code WordPress app builder family: the shared Flutter package behind every variant and a custom JSON-to-Flutter rendering engine (details under Projects)
- Architected the offline-first sync engine for Nourish (100+ SQLite tables, 90+ APIs consolidated into batch operations) and built PosKeeper, an offline/online POS for medicine stores
- Shipped Fluent Community Mobile to Play Store and App Store, first in Flutter on that package; since June 2026 I co-develop its Capacitor and Ionic React rebuild. Built dynamic product variant selection for the e-commerce apps
- Own release engineering end to end: signing, versioning, staged rollout, iOS publishing automated with Fastlane and the App Store Connect API
- Clean architecture (MVVM, SOLID); Riverpod on current work, BLoC where it fits; Firebase Auth, Firestore and Cloud Functions behind REST APIs
- Claude Code, Cursor, GitHub Copilot and Augment in daily use on production work, with the engineering decisions reviewed and owned by me
- Promoted from Junior Software Engineer to Project Maintainer; mentor the junior developer on a two-person mobile team

Freelance Software Developer

Self-employed — Remote / International Clients

16/02/2022 – Current | freelancer.com/u/Saifulhossain831

- Delivered 8 projects for international clients across mobile, web and backend, with a 5★ rating on every review
- Notable: research testing project for the University of Bonn, Germany — evaluated two Linux testing tools for a research team
- Notable: QRF, a Quran reading and learning app with multiple translations, audio recitations, bookmarking, verse search and offline access via SQLite

SKILLS

Programming	Dart, Python, Java, C++
Mobile & Cross-Platform	Flutter (Android & iOS), Riverpod, BLoC, Provider
Backend & Cloud	Firebase (Firestore, Auth, Cloud Functions, Storage), REST APIs, FastAPI, Redis, PostgreSQL
Databases	SQLite, SQL, NoSQL, ChromaDB (vector store)
Architecture	Clean Architecture, MVVM, SOLID, offline-first design, data synchronization
AI-Assisted Dev	Cursor, GitHub Copilot, Augment, Claude Code
AI & Automation	RAG pipelines (ChromaDB, LangChain, embeddings), agent orchestration (OpenClaw), ComfyUI workflows, cloud GPU (RunPod)
Version Control & CI/CD	Git, Fastlane
Methodologies	Agile/Scrum, automated testing, code review

LANGUAGE SKILLS

Mother tongue: Bengali

English Listening **B2** Reading **B2** Writing **B2** Spoken Production **B2** Spoken Interaction **B2**

Levels: A1/A2 Basic user; B1/B2 Independent user; C1/C2 Proficient user

PROJECTS

Master Mosai — Retrieval-Augmented Generation (RAG) Service (Personal Project)

2026 – Current

- Python retrieval service answering questions over a private document corpus, built as a production-shaped system rather than a notebook
- ChromaDB vector store with LangChain recursive chunking and Ollama `omic-embed-text` embeddings
- Served through FastAPI with Redis caching, PostgreSQL persistence, Prometheus metrics and a dependency-injection container
- 8,000+ lines of Python with 128 test functions covering retrieval, chunking and the API surface
- Generation layer uses ChatOllama, so the model provider is a LangChain swap rather than a hosted-API dependency

Technologies: Python, FastAPI, ChromaDB, LangChain, Ollama, Redis, PostgreSQL, Prometheus, Docker

(Private project, not publicly available)

Studio-Ops — Autonomous AI Video Generation Platform (Personal Project)

2026 – Current

- Channel-agnostic platform for autonomous video production: topic discovery → script → video generation → upload, end-to-end
- Orchestrates multiple AI models (LTX 2.3, Wan 2.2, Flux.2) across cloud GPU infrastructure (RunPod RTX 5090, A100)
- Automated pod lifecycle management (start, configure, generate, stop) via REST APIs
- Sub-agent architecture with isolated execution contexts per pipeline phase; supports pure T2V, single-reference, last-frame chaining, and batch-parallel strategies
- Integrated OpenClaw bot via Telegram for batch generation and pipeline control
- Speed-optimization stack: SageAttention + RIFE interpolation (~45% speedup)

Technologies: Python, ComfyUI workflows, RunPod API, Docker, Telegram bot integration, Claude Code CLI (*Private project, not publicly available*)

Appza — No-Code WordPress App Builder

01/07/2023 – Current | wordpress.org/plugins/appza-builder

- No-code mobile app platform for WordPress, enabling users to build and publish apps without programming knowledge
- Drag-and-drop builder with real-time preview for rapid customization
- Integrated major plugins: WooCommerce, TutorLMS, LearnDash, Fluent Community
- Custom JSON-to-Flutter rendering engine to dynamically generate UI components at runtime
- MVVM architecture, automated CI/CD with Fastlane, environment-based build flavors
- Own the mobile architecture and production releases; mentor the junior developer on a two-person mobile team

Nourish — Veterinary Data Collection System

01/09/2022 – Current | play.google.com/store/apps/details?id=com.nourish.NourishERP

- Large-scale Flutter application for veterinary field data collection in low-connectivity rural environments
- Designed for 4 user roles with offline-first architecture and automatic data synchronization
- Complex local database with 100+ SQLite tables, including 45+ reporting tables
- Consolidated 90+ import/export APIs into batch operations — significantly reduced network calls and complexity
- Integrated expense-tracking module for operational and financial record management
- Promoted from Junior Software Engineer to Project Maintainer, owning feature development, maintenance, and releases

PosKeeper — Offline-First POS Solution for Medicine Stores

01/01/2024 – Current | play.google.com/store/apps/details?id=com.poskeeper.com

- Comprehensive POS system for medicine stores with seamless offline/online operation
- Offline-first architecture ensuring uninterrupted sales and purchase workflows without internet connectivity
- SQLite-based local storage with automatic synchronization for data consistency
- Core POS modules: invoicing, transactions, customer/vendor ledgers, financial reporting
- Dynamic theme loading system, which later formed the foundation of a reusable dynamic widget rendering engine

CERTIFICATIONS & COMPETITIONS

Pearson Test of English (PTE Academic)

07/02/2026 | Overall: **67** (Listening 69, Reading 59, Speaking 68, Writing 63)

Certified English language proficiency for academic and professional study in English-medium institutions.

Inter-University Programming Contests — 2022

Onsite participant at BUET, AUST and RUET IUPC 2022; 166 Codeforces contests through university