

MD SAIFUL HOSSAIN

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PROFILE

Software engineer with 3.5+ years of experience specializing in mobile and cross-platform application development with Flutter. BSc in Computer Science and Engineering with a solid foundation in algorithms, data structures, and software architecture. Experienced in delivering production-ready applications that solve real-world problems with scalable, efficient solutions. Actively extending this practical foundation into autonomous AI systems and agent-based automation, and seeking to carry this trajectory into graduate-level research in computer science.

EDUCATION

BSc in Computer Science and Engineering

Uttara University, Dhaka, Bangladesh | CGPA: 3.50 / 4.00 ($\approx 87.5\%$)

January 2019 – December 2022

- **Final Year Project:** "Veterinary Doctor" — a mobile application for veterinary healthcare, built with Flutter and Firebase.
- **Selected coursework:** Machine Learning, Artificial Intelligence & Expert Systems, Computer Vision & Image Processing, Data Structures & Algorithms, Compiler Construction, Database Systems, Software Engineering, Object-Oriented Programming (Java, C++), Operating Systems, Statistics & Probability, Linear Algebra, Numerical Analysis.
- **Project Advisor:** Md. Zubair, Lecturer, Dept. of CSE (currently pursuing PhD).

RESEARCH INTERESTS

Research at the intersection of mobile computing, software engineering, and intelligent systems — with particular interest in:

- Offline-first architectures and data synchronization for low-connectivity environments.
- Automated code generation and low-code / no-code development platforms.
- Agentic AI and autonomous multi-model orchestration for end-to-end creative and software workflows.
- Machine learning applied to mobile application performance, user engagement, and adaptive UI.

Long-term goal: make software development more accessible, efficient, and autonomous through agent-driven systems.

RESEARCH & TECHNICAL EXPERIENCE

Software Engineer

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

August 2022 – Present

- Built cross-platform mobile applications with Flutter, applying rigorous software engineering principles relevant to mobile computing research.
- Integrated REST APIs, Firebase Authentication, Firestore, and Cloud Functions.
- Implemented clean architecture and scalable code following SOLID principles.
- Collaborated with cross-functional teams across backend, UI/UX, and QA.
- Optimized app performance, reduced crashes, and improved load times.
- Published and maintained apps on the Google Play Store; used Git for version control and CI/CD pipelines.
- Mentored junior developers and led technical initiatives; progressed from Junior Software Engineer to Project Maintainer.

Freelance Software Developer

- Completed freelance software projects for international clients.
- **UBonn C-Linux Study:** evaluated two Linux testing tools for a University of Bonn research team.

RESEARCH & DEVELOPMENT PROJECTS

Studio-Ops — Plug-and-Play Autonomous AI Video Generation Platform *(Personal project, 2026)*

- Channel-agnostic platform for autonomous video production: topic discovery → script writing → video generation → upload, end-to-end.
- Orchestrates multiple AI models (LTX 2.3, Wan 2.2, Flux.2) across cloud GPU infrastructure (RunPod).
- 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, hybrid, and batch-parallel generation strategies.
- Speed-optimization stack: SageAttention plus frame reduction with RIFE interpolation (~45% speedup).
- Agent-agnostic design: any orchestrator (Claude Code CLI, OpenClaw, custom agents) can drive the pipeline.
- **Tech:** Python, ComfyUI workflows, RunPod API, Telegram bot integration.
- *Private project (not publicly available).*

Nourish — Offline-First Veterinary Data Collection System *(September 2022 – Present)*

- Designed an offline-first Flutter app for rural veterinary data collection, ensuring reliable access for field agents in low-connectivity environments.
- Built a local SQLite database with 100+ tables (including 45+ reporting tables) for robust offline use and data correctness.
- Consolidated 90+ import/export APIs into batched operations to reduce network calls and complexity.
- Added expense-tracking module, improving stability and usability.
- Promoted to Project Maintainer, leading direction and releases.
- **Tech:** Flutter, Dart, SQLite, batched API design. [Google Play](#)

Appza — No-Code WordPress App Builder *(July 2023 – Present)*

- Created a no-code platform enabling WordPress users to build and publish custom mobile apps.
- Designed a drag-and-drop builder with instant preview for rapid customization.
- Integrated major plugins (WooCommerce, TutorLMS, LifterLMS, LearnDash, Fluent Community) for seamless automated app building.
- Built a JSON-to-Flutter UI engine for flexible live design.
- Established MVVM architecture with GetX and automated CI/CD with Fastlane.
- Led the mobile team, mentored developers, and managed releases.
- **Tech:** Flutter, GetX, WordPress API, Fastlane, CI/CD. wordpress.org/plugins/appza-builder

PosKeeper — Offline-First POS Solution for Pharmacies *(January 2024 – January 2025)*

- Delivered a robust POS application for pharmacies with uninterrupted online/offline operation.
- Implemented SQLite with auto-sync, ensuring data consistency regardless of network status.
- Developed billing, transactions, customer and vendor ledgers, and financial reporting tailored to pharmacy workflows.
- Built a dynamic theme loader that evolved into a flexible widget-rendering engine.
- **Tech:** Flutter, Dart, SQLite, synchronization. [Google Play](#)

TECHNICAL SKILLS

Programming Languages: Dart, Python, Java, C++, R

Mobile & Cross-Platform: Flutter (Android & iOS)

Backend & Cloud: Firebase (Firestore, Auth, Cloud Functions, Storage), REST APIs, RunPod (cloud GPU)

Databases: SQLite, Firestore, MySQL

AI & Automation: AI model orchestration, LLM-driven workflow automation (Claude Code CLI), pod lifecycle automation, cost-aware serverless vs on-demand benchmarking

Architecture: Clean Architecture, MVVM, SOLID principles, offline-first systems, data synchronization

DevOps & Tools: Git, Docker, CI/CD (Fastlane), GetX, Provider, VS Code, Android Studio

Methodologies: Agile/Scrum, automated testing, dynamic UI rendering

ACHIEVEMENTS & COMPETITIONS

- Participant, Inter-University Programming Contest 2022 – Bangladesh University of Engineering and Technology (BUET).
- Participant, Inter-University Programming Contest 2022 – Ahsanullah University of Science and Technology (AUST).
- Participant, Inter-University Programming Contest 2022 – Rajshahi University of Engineering & Technology (RUET).

CERTIFICATIONS

Pearson Test of English (PTE Academic) – Overall: 67 | *February 2026*

Listening: 69 | Reading: 59 | Speaking: 68 | Writing: 63

LANGUAGES

- **Bengali:** Native
- **English:** Proficient (PTE Academic Overall: 67)

REFERENCES

Md. Zubair

Lecturer, Department of Computer Science & Engineering

Uttara University, Dhaka, Bangladesh

Email: md.zubair@uttarauniversity.edu.bd

Relationship: Academic Supervisor & Final Year Project Advisor

Uttam Kumar Dey

Assistant Professor, Department of Software Engineering

Daffodil International University, Dhaka, Bangladesh

(Former Assistant Professor, Dept. of CSE, Uttara University)

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Relationship: Course Instructor

Additional academic references available upon request.