

MUHAMMAD SAJEDUL ISLAM

Software Engineer : Mobile And Full-Stack

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SUMMARY

Software engineer, co-founder, and CTO with 2+ years of experience leading end-to-end product lifecycles, managing client requirements, and delivering high-satisfaction solutions for global clients across the UK, US, Singapore, and Bangladesh. As Co-Founder & CTO of Kerno Studio, drive product execution and technical architecture across mobile, web, and backend systems; built and published 50+ apps and 25+ web products spanning mobile utilities, enterprise ERPs, SaaS platforms, and AI-powered tools, using Flutter, Next.js, Node.js, Django, and Native Android. Strong track record building production apps with 100K+ global users, combining deep technical expertise with strategic product management across individual contributor, tech lead, CTO, and product management roles. Alongside engineering, also a publisher and language specialist, having edited 75+ published books in Bengali.

EXPERIENCE

Co-Founder & CTO

Jul 2025 – Apr 2026

Kerno Studio

Onsite

- Co-founded a full-service software studio delivering mobile apps, web platforms, and enterprise systems; owned all technical strategy, architecture decisions, hiring, and client delivery across 15+ shipped products.
- Architected and shipped **BCNEPS**, a full-stack monorepo platform (NestJS backend, Next.js 14 frontend, Next.js 16 admin panel) with a shared `@bcneps/shared` TypeScript package for DTOs and enums, Raw MySQL with `mysql2`, Passport JWT auth, Bootstrap 5, and Tailwind CSS v4; serving distinct public-user and admin surfaces.
- Delivered 5+ enterprise web apps including **ER Income Tax ERP 2.0** (multi-year fiscal calculation, approval workflows, print-ready tax reports), **Tamam PVC ERP** (supplier logs, PO tracking, payroll, stock, invoicing), and **UXPort** (no-code portfolio builder with GitHub import, real-time theme customization, and free CDN subdomain deployment).
- Built **NexCard**, an NFC digital business card app, with Flutter, Node.js, MySQL, JWT auth, and NFC read/write capabilities, enabling instant contact sharing for professionals.
- Developed **Upossthit**, a smart attendance tracker using camera-based photo evidence and GPS verification, with Supabase/PostgreSQL, Firebase Auth, PDF report generation, and real-time classroom metrics for teachers.
- Built **Digital Delta**, an offline-first disaster logistics coordination app, supporting mesh networking, GeoJSON routing, and SQLite sync for decentralized volunteer/drone/field hospital coordination with zero server dependency for 90% of runtime.
- Shipped **Safe Alert** (IoT home safety with Arduino + TensorFlow Lite acoustic ML via Bluetooth LE), **Appi** (gamified EdTech with Rive animations + Flutter TTS), **Fitness Pro** (AI fitness coach with Gemini AI + FlChart), **SheAware** (women's health tracker with NHS/WHO medical hub + Gemini AI risk scoring), and **Welcome Mate** (real-time community platform with Django WebSockets + Google Generative AI).
- Oversaw additional web deliverables: **Nexora Prime** (B2B distribution portal), **WebKingdom** (enterprise services hub serving 100+ client organizations), **Bangla Cut** (AI-assisted salon booking with Prisma ORM), **MindEnnea** (Enneagram personality analytics admin), and **Siratun Najat Foundation** (non-profit organization supporting Quranic education for underprivileged children).

Software Engineer

Jun 2024 – Feb 2026

Code Studio

Remote

- Progressed from Junior to Software Engineer within 8 months by leading development of 6+ production apps spanning e-commerce, healthcare, and fintech verticals.
- Architected **CareXpert**, an e-commerce platform with service booking and provider apps, using Flutter + Clean Architecture, reducing feature release cycles by standardizing module boundaries.
- Engineered offline-first functionality across multiple apps using local caching strategies, enabling full app operation without internet and increasing retention among low-connectivity users.
- Built and shipped **Grameen School LMS** (1K+ downloads) with SSLCommerz payment integration, delivering end-to-end from design to Play Store in under 3 months.
- Developed **Deshi**, a location-based marketplace app, with scalable architecture that supported multi-category listings and buyer/seller flows from day one.
- Contributed feature sets to **StartWish** (celebrity booking), **Service Caller** (multi-type service bookings), **Treatment Diary** (medical LMS), and **Amar Khata** (financial management).

Junior Product Manager (Mobile App Developer)

Dec 2024 – Jun 2025

LiiLab

Onsite

- Worked primarily as a mobile app developer across 4 products while contributing PM responsibilities; conducted product research for **AI Intro Video Maker**, identifying user growth opportunities and engagement improvement points to support download and retention growth.
- Developed and defined AI-powered learning flows, flashcard personalization logic, and core UI architecture for **Vocab AI Flashcard** app from the ground up.

- Built and maintained core features of **OneIELTS** as a mobile developer, contributing to the app's growth to ~100K global users; focused on feature continuity, stability, and user experience improvements.
- Collaborated with engineering and design teams through sprint planning and competitor analysis, bridging product insights with hands-on mobile development across the product suite.

Co-Founder & CTO

Oct 2023 – Jul 2025

Heapiphy

Hybrid

- Founded and led all technical operations; mobile development, web infrastructure, payment integration, and SEO; for a bootstrapped product studio with multiple live apps.
- Built **Waqf** (Native Android/Kotlin), an ad-free Islamic prayer app reaching 1,200+ downloads and a 4.5+ rating, with accurate prayer time calculations, Qibla compass, Quran reading, and smart notifications.
- Developed **NewsSip** (Flutter) with breaking news notifications and automated content updates; built **UKGreenLineTravel** WordPress booking system with live PayPal payment integration.
- Owned full app publishing pipeline: App Store/Play Store submissions, release management, bug triaging, and ASO improvements to grow organic install rates.

Flutter Developer

Feb 2024 – May 2024

Elort

Remote

- Implemented **RNNoise-based real-time noise reduction** in Flutter; an advanced ML audio pipeline processing live microphone input with minimal latency.
- Built a QR & barcode scanner app with Firebase Cloud Messaging for notifications and real-time cloud sync across devices.
- Followed agile workflows via Jira; applied clean architecture and Flutter best practices across all production deliverables.

Android Developer

Aug 2023 – May 2024

AlgoStackBD

Remote

- Integrated subscription billing and Chromecast casting into a Java-based IPTV app, improving monetization and device reach.
- Built a room booking app in Kotlin with smooth multi-step reservation flows; developed **SpellX**, a voice-based vocabulary spelling checker.
- Managed Google Play Console submissions, versioned updates, and policy compliance reviews for 3+ apps.

PROJECTS

Kickoff : Real-Time Football Prediction Platform | Flutter, Node.js, MySQL, Redis, Socket.IO, Next.js Play Store

- **Situation:** Needed a real-time doctor engagement platform for football tournament predictions with regional leaderboards.
- **Task:** Architect full-stack system; mobile app, backend, admin panel; with live score sync and automated points logic.
- **Action:** Built Flutter mobile app (Clean Architecture + Riverpod + FCM); architected Express.js backend with MySQL, Redis caching, and Socket.IO for sub-second leaderboard updates; engineered cron-based match sync and prediction-locking engine; created Next.js admin panel with TanStack Query, Tailwind CSS v4, and Recharts for match grading and territory analytics.
- **Result:** Delivered a production-ready, full-stack platform handling real-time events across a distributed user base with zero-downtime deployment.

Sheba.AI : AI-Powered Healthcare App | Flutter, Riverpod, Django REST, Gemini Pro 2.5, SQLite GitHub

- **Situation:** Millions in Bangladesh lack safe access to medicine information and struggle with handwritten prescriptions.
- **Task:** Build an AI-first mobile health app with prescription analysis, medicine lookup, and ordering; offline-capable.
- **Action:** Integrated **Gemini Pro 2.5 Vision-Language Model** for handwritten prescription parsing; built a searchable database of 21K+ medicines with dosage, pricing, and generic alternatives; implemented JWT-secured REST API, cart/ordering flow, and offline-first SQLite persistence via Clean Architecture + Riverpod.
- **Result:** Fully functional offline-first health app with AI prescription analysis, end-to-end ordering, and robust state management ready for production release.

Waqf : Islamic Prayer App | Kotlin, WorkManager, Coroutines, Retrofit, GPS Play Store

- **Situation:** Existing prayer apps were ad-heavy and inaccurate in GPS-based prayer time calculations for South Asian regions.
- **Task:** Build a clean, ad-free Android app with accurate prayer times, Qibla, Quran, and smart scheduling.
- **Action:** Implemented location-aware prayer time calculations, Qibla compass, Quran reader, Dua collection, and WorkManager-based notification scheduling with multilingual support.
- **Result:** **1,200+ downloads, 4.5+ rating** on Google Play Store with strong organic growth and zero ad revenue dependency.

TECHNICAL SKILLS

Mobile	Flutter, Native Android (Kotlin, Java), GetX, Riverpod, BLoC, Clean Architecture
Web	React, Next.js, Node.js, Express.js, Django REST, TypeScript, Tailwind CSS
Databases & Cloud	MySQL, SQLite, Firebase, Supabase, MongoDB, Redis
Languages	Dart, Kotlin, Java, Python, JavaScript/TypeScript, C, C++
Tools & Platforms	Git, GitHub, GitLab, Jira, ClickUp, Figma, Google Play Console, App Store Connect
Concepts	REST APIs, WebSockets, FCM, JWT, Offline-First Architecture, Agile/Scrum

EDUCATION

Leading University

B.Sc. in Computer Science & Engineering

Sylhet, Bangladesh

Jan 2022 – Apr 2026