

MUHAMMAD SAJEDUL ISLAM

Software Engineer : Mobile And Full-Stack

Sylhet, Bangladesh | +880 1756-964475 | thesajed.com

muhammadsajedulislambn@gmail.com

LinkedIn | GitHub

SUMMARY

Software Engineer & CTO with 2.5+ years of experience building and scaling mobile and full-stack products. Delivered 50+ mobile apps and 30+ web platforms (SaaS, ERP, POS, e-commerce, AI) using Flutter, Next.js, NestJS, Node.js, Django, and Native Android, reaching 100K+ global users. Strong track record leading end-to-end product development, technical architecture, and cross-functional teams while managing clients across UK, US, Singapore, and Bangladesh.

EXPERIENCE

Co-Founder & CTO

Jul 2025 – Present

Kerno Studio

Onsite

- Co-founded a full-service software studio delivering mobile apps, web platforms, and enterprise systems; owned technical strategy, architecture, hiring, and client delivery across **25+ 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 4+ enterprise ERP and business-management systems on NestJS, Next.js, and MySQL: **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 **Desh64**, a unique e-commerce platform with an integrated super-admin ERP panel for catalog, order, and operations management.
- Led design and delivery of 13+ full-stack corporate, e-commerce, and portfolio websites on a standardized Next.js/NestJS/MySQL stack, including **Bridge Industries Ltd** and **Bridge Food & Beverages** (e-commerce), **Afrooz Polymer Industries** (Astro/Next.js), **AI Mokka Associate**, **Nizoder, Adv. Munir, UXPort** (no-code portfolio builder with GitHub import and CDN subdomain deployment), **Nexora Prime** (B2B distribution portal), **WebKingdom** (enterprise hub serving 100+ client organizations), **Bangla Cut**, **MindEnnea**, and **Siratun Najat Foundation**; reduced new-client turnaround by reusing a shared admin-panel/API boilerplate.
- Built **ChangeTV**, a PHP/Laravel news and video media portal with MySQL backend supporting content publishing, video streaming, and editorial admin workflows.
- 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.
- Delivered **Upossthit** (camera- and GPS-verified attendance tracker with Supabase/PostgreSQL, Firebase Auth, PDF reporting), **Digital Delta** (offline-first disaster-logistics app with mesh networking, GeoJSON routing, and SQLite sync), and **Psoriasis Calc** (cross-platform Flutter/iOS-Android healthcare app with Next.js/NestJS/MySQL backend for dermatology severity scoring and treatment tracking).
- Shipped **Safe Alert** (IoT safety, Arduino + TensorFlow Lite acoustic ML), **Appi** (gamified EdTech, Rive + Flutter TTS), **Fitness Pro** (AI coach, Gemini AI + FlChart), **SheAware** (women's health tracker, NHS/WHO hub + Gemini AI risk scoring), and **Welcome Mate** (real-time community platform, Django WebSockets + Google Generative AI).

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 via local caching across multiple apps, enabling full operation without internet and boosting retention among low-connectivity users.
- Built and shipped **Grameen School LMS** (1K+ downloads) with SSLCommerz payment integration, from design to Play Store in under 3 months; developed **Deshi**, a location-based marketplace app with multi-category listings and buyer/seller flows.
- Contributed feature sets to **StartWish** (celebrity booking), **Service Caller** (service bookings), **Treatment Diary** (medical LMS), and **Amar Khata** (financial management).

Junior Product Manager (Mobile App Developer)

Dec 2024 – Jun 2025

LiiLab

Onsite

- Worked as a mobile developer across 4 products while contributing PM responsibilities; drove product research for **AI Intro Video Maker**, identifying growth and engagement opportunities.
- Developed AI-powered learning flows, flashcard personalization logic, and core UI architecture for **Vocab AI Flashcard** from the ground up.
- Built and maintained core features of **OneIELTS**, contributing to its growth to ~100K global users, with a focus on stability and UX improvements.
- Collaborated with engineering and design through sprint planning and competitor analysis, bridging product insights with hands-on mobile development.

- Founded and led all technical operations, mobile development, web infrastructure, payment integration, and SEO, for a bootstrapped product studio with multiple live apps.
- Built **Wagt** (Native Android/Kotlin), an ad-free Islamic prayer app with accurate prayer time calculations, Qibla compass, and Quran reading, reaching **1,200+ downloads** and a **4.5+ rating**.
- Developed **NewsSip** (Flutter) with breaking news notifications and built **UKGreenLineTravel** WordPress booking system with live PayPal integration; owned the full store-publishing and ASO pipeline.

Flutter Developer

Feb 2024 – May 2024

- Implemented **RNNoise-based real-time noise reduction** in Flutter, an ML audio pipeline processing live microphone input with minimal latency, and a QR/barcode scanner app with Firebase Cloud Messaging and real-time cloud sync, following agile/Jira workflows.

Android Developer

Aug 2023 – May 2024

- Integrated subscription billing and Chromecast casting into a Java-based IPTV app; built a Kotlin room-booking app and **SpellX** (voice-based vocabulary checker); managed Play Console submissions and compliance for 3+ apps.

PROJECTS

Stock Studio : Multi-Tenant SaaS ERP, POS & Accounting | Next.js 15, NestJS 11, TypeORM, MySQL, Redis, BullMQ [Live Site](#)

- Architected and deployed a multi-tenant SaaS ERP/POS platform handling inventory, sales, purchases, payroll, and double-entry accounting with logical tenant isolation, subscription tiers, and a dedicated Super Admin dashboard for lifecycle management and support ticketing.
- Engineered a GAAP-compliant Double-Entry General Ledger featuring automated journal entries from every operational event, Chart of Accounts, fiscal year/period management, and immutable monthly period locks that prevent retroactive changes for full audit integrity.
- Built a high-velocity POS checkout in Next.js 15 + React 19 with barcode scanning, Cmd+K command palette, multi-method payments, and instant dual-format printing (58/80mm thermal + A4/A5 invoices) via jsPDF/html2canvas; enforced cent-perfect monetary math with Decimal.js across all calculations.
- Integrated BullMQ + Redis to offload heavy background jobs (nightly backups, report generation, bulk Excel/PDF exports), reducing API response times by **40%**; implemented real-time stock sync, multi-unit hierarchy, low-stock alerts, customer credit ledgers, and full financial reports (P&L, Balance Sheet, Trial Balance, Cash Flow).

Kickoff : Real-Time Football Prediction Platform | Flutter, Node.js, Express, MySQL, Redis, Socket.IO, Next.js [Play Store](#)

- Architected and delivered a full-stack real-time football prediction platform featuring a Flutter mobile app, Express.js backend, and Next.js admin panel, supporting live match predictions, regional leaderboards, and automated scoring.
- Built the mobile client with Clean Architecture + Riverpod + FCM for push notifications; engineered Socket.IO + Redis for sub-second leaderboard updates and a cron-based match-sync engine that locks predictions at kickoff.
- Developed a Next.js admin dashboard with TanStack Query, Tailwind CSS v4, and Recharts for match grading, territory analytics, and real-time monitoring of prediction volume.
- Launched a production-ready platform achieving **5k+ downloads** and **100k+ predictions**, with zero-downtime deployment and reliable real-time event handling across a distributed user base.

Sheba.AI : AI-Powered Healthcare App | Flutter, Riverpod, Django REST, Gemini Pro 2.5, SQLite [GitHub](#)

- Designed and built an offline-first AI healthcare mobile app focused on prescription analysis, medicine lookup, and ordering, targeting users in Bangladesh with limited access to reliable medical information.
- Integrated **Gemini Pro 2.5 Vision-Language Model** for accurate parsing of handwritten prescriptions; created a searchable database of 21K+ medicines including dosage, pricing, and generic alternatives.
- Implemented JWT-secured Django REST APIs, full cart/ordering flow, and offline-first SQLite persistence using Clean Architecture + Riverpod for robust state management and seamless online/offline transitions.
- Delivered a production-ready app with end-to-end AI prescription analysis, medicine ordering, and reliable offline support, ready for public release.

TECHNICAL SKILLS

Mobile	Flutter, Native Android (Kotlin, Java),GetX, Riverpod, BLoC, Clean Architecture
Web	Next.js, React, Astro, Node.js, NestJS, Express.js, Django REST, Laravel, TypeScript, Tailwind CSS
Databases & Cloud	MySQL, SQLite, Firebase, Supabase, MongoDB, Redis
Languages	Dart, Kotlin, Java, Python, JavaScript/TypeScript, PHP, 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