Qomarul Hasan

github.com/qomarhsn · @qomarhsn

Software Engineer · AI-Driven Systems & Applications

Email: mail@qomarhsn.com Web: qomarhsn.com GitHub: github.com/qomarhsn Location: Dhaka, Bangladesh

PROFESSIONAL SUMMARY

Full-stack software engineer specializing in systems programming, developer tooling, and modern web applications. Experienced across C, C++, TypeScript, Rust, and Linux environments, leveraging AI agents and disciplined workflows to rapidly engineer robust, production-ready software. Active open-source maintainer and educational administrator with advanced credentials in classical Islamic jurisprudence and Arabic textual scholarship.

TECHNICAL EXPERTISE

Languages	C, C++, TypeScript, JavaScript, Rust, Kotlin, PHP, Bash / POSIX Shell
Frontend	Astro, React, Next.js, Tailwind CSS, HTML5, CSS3, Responsive Design
Backend & Data	Node.js, Express, Supabase, PostgreSQL, SQLite, MySQL, REST APIs
Apps & Platforms	Capacitor (Android), Tauri (Desktop), Linux (Fedora), Windows IME Architecture
Tools & DevOps	Git, GitHub Actions, Docker, Podman, Cloudflare Workers, nginx, Vite, npm

EXPERIENCE & LEADERSHIP

Talimul Quran Madrasah `Academic Administration` 2025 – Present

Vice Principal – Education (Na'ib Nazim-e Ta'limat) Dhaka, Bangladesh

- Overseeing academic curriculum, faculty coordination, and instructional standards for institutional education.
- Directing day-to-day administrative operations, student academic progress tracking, and departmental planning.

Open Source Maintainer & Developer `Open Source` Ongoing

KhiproTeam · MuslimTechnician Distributed / Remote

- **khipro-windows-portable (C++):** Lead maintainer of the standalone, zero-dependency Windows system tray IME application for the Khipro compositional Bengali keyboard layout.
- **khipro-library (C++):** Core developer of the cross-platform IME engine that powers Bengali input handling and composition across platforms.
- **muajjin (TypeScript / React / Capacitor):** Co-developer of a privacy-first prayer & fasting schedule app for Android, executing 100% on-device calculations with zero tracking and no remote API dependencies.

SELECTED PROJECTS

Khipro – Windows Portable C++ · Windows IME
Standalone system tray input method editor for compositional Bengali typing. Requires zero installation or external runtime dependencies.

Muajjin React · Capacitor · Android
Privacy-centric Android application for Salat & Saum timings. Calculates prayer times on-device without telemetry or network queries.

Zen Browser DNF Repo RPM · DNF · Fedora
Automated packaging repository enabling Fedora, RHEL, and CentOS users to install and update Zen Browser cleanly through system package managers.

PanelNote Extended JavaScript · GNOME Shell
Actively maintained GNOME Shell top-bar extension featuring customizable panel alignment and timed alerts for desktop notifications.

Khipro Library C++ · Cross-platform
High-performance compositional layout IME engine serving as the core input parser for desktop Bengali typing applications.

HoverBlurr JavaScript · Web Extension
Focus-oriented browser extension that dynamically blurs webpage images until hovered, ensuring a distraction-free reading experience.

EDUCATION & CLASSICAL SCHOLARSHIP

At-Takhassus fil Fiqh (Specialization in Islamic Jurisprudence) `Mumtaz (Distinction)` 2025

Jamia Islamia, Dhaka Dhaka, Bangladesh

Advanced post-graduate research in comparative Islamic jurisprudence, legal methodology, and classical jurisprudence principles.

Dawrah-e Hadith (Takmil) – Master's Equivalent `Jayyid Jiddan (Very Good)` 2024

Jamia Islamia Darul Uloom Madania, Dhaka (Board: Al-Hai'atul Ulya lil-Jami'atil Qawmia Bangladesh) Dhaka, Bangladesh

Comprehensive study of classical Hadith collections, Arabic philology, and hermeneutics. Recognized by Bangladesh law (2018 legislation) as equivalent to a Master's degree in Islamic Studies and Arabic.

LANGUAGES

Bangla: Native **English:** Professional Working Proficiency **Urdu:** Fluent **Arabic:** Classical & Scholarly Proficiency

Dari: Working Proficiency