

Srejon Khan

Software Engineer | Distributed Systems, Real-time, Platform | BSc in CSE (Data Science Major)

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SUMMARY

Software Engineer with **5+ years** of experience designing and scaling **high-throughput production systems**. Deep technical expertise across Distributed Systems, Real-time Infrastructure, Embedded Hardware, and Platform/Developer Tooling. **10x National Hackathon Podium** and NASA Space Apps 2023 Global Nominee & Local Winner.

SKILLS

Languages	TypeScript, JavaScript (Node.js, Bun), Python, C/C++, C#, SQL
Backend / API	Hono, Express.js, WebSocket, WebRTC, LiveKit, RabbitMQ, BullMQ
Database	MongoDB, PostgreSQL, MySQL, Redis, Dragonfly, InfluxDB, SQLite, Firebase
Infra / Ops	Docker, Kubernetes (EKS, kubeadm), ArgoCD, Helm, Pulumi, Coolify
Telemetry	OpenTelemetry, Grafana, Prometheus, Loki, Jaeger
Cloud	AWS, DigitalOcean, Cloudflare, Contabo, Bunny, Hetzner
CI/CD & Tests	GitHub Actions, GitLab CI, Vitest, Jest, Supertest, Selenium
Frontend	React.js, Next.js, TailwindCSS, HTML/CSS
Embedded	ESP32, Arduino, NFC, GPS, PlatformIO, KiCAD

WORK EXPERIENCE

Bugfixers

May 2026 - Present

Contract Technical Consultant

Hybrid

- Architect **enterprise-scale** and **electro-optical systems** from scratch for **large-enterprise** and **defense-sector** clients.
- Lead **requirements analysis** on contracted projects, translating client and stakeholder needs into technical specifications and scoped deliverables.
- Present **technical strategy** and project direction to senior leadership in high-value client pitches.

Systemica Institut GmbH

Oct 2024 - Apr 2026

Software Engineer

Remote

- Designed and built an internal **envelope-encryption** package (TypeScript) implementing MEK/KEK/DEK with key rotation. Replaced an earlier HashiCorp Vault (EaaS) dependency and reduced service startup time by 70% via transparent decryption.
- Contributed to **PSD2-SCA** compliant **Payment System** with automated SEPA flows and reconciliation with the goal of near-zero audit flags.
- Led a team of 6 engineers** to develop an internal **monorepo template** adopted by all services, reducing new-project core feature bootstrapping.
- Engineering backend services for Psyscreen, a **LiveKit/WebRTC video platform** for clinical psychological screening.
- Automated project bootstrapping & incident runbooks, reducing **20 dev-hrs/mo** and reducing mean recovery from **avg 45 min to avg 10 min**.

Freelance Software Engineer

Mar 2022 - Sep 2024

Several Companies and Clients

Remote

- Built **Ticketing Service (Node.js, MongoDB)**; Load-tested to sustain **millions of emails/day** at **p95=150 ms**, with auto-deduping projected to **reduce SLA** from **4 h to 1.5 h**.
- Built privacy-compliant **Medical API and Postgres** backend (ISO/IEC 27001, BD Telemedicine 2020) for Hurtlebee-NICUSys, a NICU vitals dashboard for clinicians.
- Deployed an edge-rendered Results Portal on **Cloudflare Workers** for BAIUST. Load-tested at **~420 req/s**

with p95 = 79 ms, serving 2.2K users.

- Launched **GoodWords**, a word-puzzle mobile game (**Unity, C#**) with a GitHub Actions CI/CD pipeline enabling same-day store releases.

DTOWN

Nov 2020 - Oct 2021

Game Developer - XR & Backend Team

Remote

- Shipped **Unity/C#** XR gameplay sustaining 60 FPS, architected **Firestore-based Backend**. Authored open-source [Firestore REST Client](#) still powering a mobile game with 5M+ downloads and ~30K MAU.

HONORS & AWARDS

Outstanding Student Award 2025	2025
Department of CSE, BAIUST	Cumilla, BD
National & International Distinguished Student Award	2025
BAIUST	Cumilla, BD
Global Nominee, Local Winner	2023
NASA Space Apps Challenge 2023	Dhaka, BD
Champion, 4x National Hackathons	2023-26
NSU Tech Fest 2025, UAP InnovateX 2025, GDG Sonargaon DevFest AI 2023, NASA Space App Challenge 2023	Multiple, BD
Runner-Up, 6x National Hackathons	2023-26
SUST CSE Carnival 2026, BUET CSE Fest 2026 (MicroOps), CUET CSE Fest 2025 (MicroOps), MIST Inventious 4.1, CUET ETE Televerse 2025, DNA Health Hack 2026	Multiple, BD
Finalist, 2x National Hackathons	2024
IUT National ICT Fest 2024 (Top 10), SUST CSE Carnival 2024 (Top 9)	Multiple, BD

EDUCATION

Bangladesh Army International University of Science and Technology	Apr 2022 - Mar 2026
BSc in Computer Science and Engineering (Data Science Major)	Cumilla, BD
• CGPA: 3.32 • Thesis: Selective State Space Model (VideoMamba) for Extended Temporal Reasoning in Surveillance Video Anomaly Detection. • Awards: Outstanding Student Award 2025, National & International Distinguished Student Award • Co-Curricular: President of the 9th Panel, BAIUST Computer Club	

LEADERSHIP

BAIUST Computer Club	Jun 2025 - Dec 2025
President	Cumilla, BD
• Launched Software Intern Program, coached 102 students to ship 6 Software Modules for the Campus. • Hosted twice-weekly "Engineering Adda" tech round-tables (avg 40 attendees), lifting club retention. • Organized a 24-h hackathon for 51 teams. Managed logistics end-to-end, with strong participant feedback. • Authored bylaws, doc templates & brand kit from scratch, reducing time for any formal procedures.	

VENTURES

Arekta Company	Mar 2026- Present
Founder & Lead Engineer	Cumilla, BD
• Architected and built ArektaTransport, a full-stack Commuter and Fleet Management Platform for the Educational Institute or Public Transport Sector. • Designed a cryptographic NFC Card protocol over MIFARE Classic 1K using HMAC-SHA256 to prevent Card Fraud and Cloning. • Built a DRM License Platform (HMAC-structured keys, server-side activation, Hardware Fingerprinting, Complete Billing System per Org) protecting Arekta product lines. • Built end-to-end live GPS Tracking (VTS) Pipeline: ESP32 + GPS + GSM firmware publishing over MQTT to EMQX Broker, consumed by Hono backend and broadcast via WebSocket to Web/Mobile Consumers.	