

Srejon Khan

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

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SUMMARY

Software Engineer with 4+ years building high-throughput production systems across Distributed Systems, Real-time Video/Tracking Infrastructure, Embedded Hardware, and Developer Tooling. Currently at a German HealthTech. 4x National Hackathon champion with 8 podium finishes, Founder of Arekta Company, 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, Kind), 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

Systemica Institut GmbH

Oct 2024 - Present

Software Engineer

Remote

- Backend engineer on Psyscreen, a **LiveKit / WebRTC** video conferencing platform for clinical psychological screening.
- Designed and built an internal **envelope-encryption** package (TypeScript) implementing MEK/DEK with key rotation. Replaced an earlier Hashicorp Vault (EaaS) dependency, 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 starter kit** adopted by all services, reducing new-project bootstrapping **from 3h to 15 min**.
- 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 $\geq 10k$ emails/day at **p95=150 ms**, with auto-deduping projected to **reduce SLA from 4 h to 1.5 h**.
- Built **Hurtlebee** privacy-compliant **Medical API and Postgres** backend (ISO/IEC 27001, BD Telemedicine 2020), powering NICU vitals dashboards 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 Firebase backend. Authored open-source [Firebase REST Client](#) still powering a mobile game with 5M+ downloads and ~30K MAU.

HONORS & AWARDS

Outstanding Student Award 2025 Department of CSE, BAIUST	2025 Cumilla, BD
National & International Distinguished Student Award BAIUST	2025 Cumilla, BD
Global Nominee, Local Winner NASA Space Apps Challenge 2023	2023 Dhaka, BD
Champion NSU Tech Fest 2025 - National Hackathon	2025 Dhaka, BD
Champion UAP InnovateX 2025 - National Hackathon	2025 Dhaka, BD
Champion DevFest AI Hackathon by Google Developer Group Sonargaon	2023 Cumilla, BD
1st Runner-Up BUET CSE Fest 2026 - MicroOps Hackathon	2026 Dhaka, BD
1st Runner-Up CUET CSE Fest 2025 - MicroOps Hackathon	2025 Chattogram, BD
1st Runner-Up MIST Inventious 4.1 - National Hackathon	2025 Dhaka, BD
2nd Runner-Up CUET ETE Televerse 2025 - API Avengers Hackathon	2025 Chattogram, BD
Top 10 Finalist IUT National ICT Fest 2024 - OpenAPI National Hackathon	2024 Gazipur, BD
Top 9 Finalist SUST CSE Carnival 2024 National Hackathon	2024 Sylhet, BD

EDUCATION

Bangladesh Army International University of Science and Technology BSc in Computer Science and Engineering (Data Science Major)	Apr 2022 - Mar 2026 Cumilla, BD
<ul style="list-style-type: none">• Current CGPA: 3.31• Thesis: Anomaly Detection from CCTV Footage with a Custom Dataset (VideoMamba, CNN)	

LEADERSHIP

BAIUST Computer Club President	Jun 2025 - Dec 2025 Cumilla, BD
<ul style="list-style-type: none">• 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 Founder & Lead Engineer	Mar 2026- Present Cumilla, BD
<ul style="list-style-type: none">• Architected and built ArektaCommuter, 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 pipeline: ESP32 + NEO-6M + SIM800L firmware publishing over MQTT to EMQX Broker, consumed by Hono backend and broadcast via WebSocket to Web/Mobile Consumers.	