# SAHARSH SHUKLA

📞 +91 75400 69309    ✉ tosharshshukla@gmail.com    in shuklasaharsh    ⬡ shuklasaharsh

## SUMMARY

Senior Software Engineer and Technical Lead specializing in distributed systems, high-scale backends, and security-first infrastructure. Proven track record building low-latency systems, event-driven platforms, and cloud-native services handling millions of users and extreme traffic spikes. Strong preference for statically typed systems languages with deep focus on correctness, performance, and reliability.

## CORE SKILLS

- **Languages:** Go, Rust, C++, Python, SQL, Bash    Redshift, Snowflake, Clickhouse

- **Backend:** Distributed Systems, Microservices, Event-Driven Architectures
- **Tools:** ELK, Solr, Kafka, Airflow, Flink, LevelDB, Temporal, n8n

- **Infra:** Kubernetes, Docker, AWS, Azure, Terraform, CI/CD
- **Security:** Zero-Trust, SASE, Secure Boot, Compliance (SOC2, HIPAA)

- **Data:** PostgreSQL, DynamoDB, Scylla, Aerospike,
- **AI:** Claude Code, AWS Bedrock, GPT

## EXPERIENCE

- **SPARX LLC**                                              Remote – NYC
  *Software Development Engineer II*                    *Jun 2025 – Present*
  – Implemented HIPAA and SOC2 Type II Compliant Claude Code via AWS Bedrock and VPCe
  – Designed and operated large-scale data pipelines moving terabytes of partner data using self-managed Apache Airflow on EKS, integrated with S3, RDS, Redshift, and Snowflake.
  – Built end-to-end CI/CD for DAG and DBT deployments, enabling safe, repeatable data releases.
  – Improved core API performance from **300ms p99 to 20µs** by introducing Valkey caching and deep Go-level optimizations, sustaining a **99.99% SLA**.
  – Owned partner and admin portals built with Next.js and TanStack, including federated auth and Auth0-based access control.

- **IntelXLabs**                                              Surat, India
  *Technical Lead*                                      *Apr 2024 – Present*
  – Led architecture and reliability for **Haanaa**, an event-driven trading platform serving **4M MAU / 500K DAU**, handling traffic spikes of **3000%+** during IPL events.
  – Managed 20+ microservices processing **$97M monthly** with strict RBI and payment compliance across multiple gateways.
  – Built large-scale IoT automation and payment workflows on Temporal, executing **1M+ workflows** with guaranteed delivery semantics.
  – Designed and shipped a managed zero-trust VPN platform with dedicated IP gateways and automated compliance (SOC2, HIPAA).
  – Led firmware development for embedded IoT hubs on BSD, implementing SD-WAN, SASE, and decentralized VPN primitives.

- **Trademarkia**                                             Chennai, India
  *Global Project Lead – Search*                        *Feb 2023 – Apr 2024*
  – Re-architected the US trademark search pipeline in Go, achieving a **960x performance improvement**.
  – Led ingestion pipelines across multiple jurisdictions using AWS Glue, Solr, Elasticsearch, and Kubernetes.
  – Owned end-to-end architecture, deployment, and scalability for search and data platforms.

- **Trademarkia** — Chennai, India
  *Software Development Engineer I* — *Dec 2021 – Feb 2023*
  - Migrated legacy ASP.NET search systems to Go, modernizing over **60 years of trademark data**.
  - Reduced core search API latency by **65%** through query optimization and caching strategies.

## Selected Projects

- **Haanaa:** Event-driven trading platform with Kubernetes autoscaling, range-based sharding, tiered caching, blue-green deployments, and canary releases.
- **FusionDataSecure:** Zero-trust VPN with filesystem-level encryption enforcement, policy engines, and real-time telemetry.
- **Astralink:** SD-WAN and decentralized VPN stack with custom packet processing, secure boot, and embedded driver development.

## Education

**Vellore Institute of Technology**, Vellore
B.Tech in Electronics and Communications Engineering — Jun 2022