

# Siarhei Valasovich

Staff Software Engineer

✉ [svalasovich+cv@gmail.com](mailto:svalasovich+cv@gmail.com)

📄 [svalasovich.github.io/cv](https://svalasovich.github.io/cv)

🌐 [svalasovich](#)

in [svalasovich](#)

## Summary

Staff Software Engineer with 9 years of experience designing and operating scalable backend and distributed systems. Experienced in infrastructure services, data platforms, and blockchain technologies, with a focus on system architecture, reliability, and performance in production environments. Proven ability to turn complex problems into robust, scalable systems.

## Publications

- [Impossible Cloud Network: A Decentralized Internet Infrastructure Layer](#)

## Technical Skills

### Key Competencies:

- Technical leadership / Architecture & System Design / Developer Experience & CI/CD
- Data-Driven Decisions / Team Growth
- Golang / Java / Kotlin
- libp2p / huma / chi / Echo / gRPC
- SQL: MySQL / PostgreSQL
- NoSQL: Redis / Cassandra / MongoDB / DynamoDB / HBase / Prometheus
- REST / GraphQL
- AWS / GCP
- Grafana / Kibana
- Docker / Kubernetes
- Spark / Hadoop / HDFS
- Kafka

## Career



**Staff Software Engineer**  
[Impossible Cloud Network](#)

Jun 2023 - present  
(Germany)

**Applied skills:** Golang · Huma, chi, GraphQL, gRPC · Base network, Ethereum, Filecoin, IPFS · Postgres, Redis · Kafka · AWS, Infura, Chainstack, Alchemy · TheGraph Subgraph, Substreams · Kubernetes, Prometheus ·

DePIN project building a decentralized cloud platform that connects enterprise-grade hardware with users, providing AWS EC2-like compute power.

### Key results:

- Contributed to the technical preparation for NFT & token sales (infrastructure, security checks, dry-runs)
- Launched the public Mainnet
- Shipped the initial protocol release
- Provided technical leadership for a team of 3, delivering milestones on time
- Contributed technical sections to the Whitepaper
- Multisig signer and one of the key custodians, reviewing and signing on-chain transactions to safeguard company funds.

- Designed & implemented a secure P2P protocol, backup & disaster-recovery for core data, validator node
- Built data indexing and EVM integrations



**Lead Software Engineer**  
CERE Network

Oct 2021 - May 2023  
(United States)

**Applied skills:** *Golang, Kotlin, JavaScript · Echo, gRPC · libp2p · AWS, DigitalOcean · Prometheus, Datadog, Grafana ·*

Customer Relation Management blockchain ecosystem in a Decentralized Data Cloud (DDC) optimized for service data integration and data collaborations, built on the scalable and heterogeneous platform of Polkadot. This DDC allows stakeholders to own and manage their data with full custody, making it platform that gives them 100% control over any data use or deployment.

**Key results:**

- Provided technical leadership for core products — storage node, decentralized CDN node, and analytics tools — delivering roadmap milestones end-to-end
- Company Hackathon — 2nd place (2022): delivered a user-activity observability MVP (I/O, per-data-type) for a decentralized storage system.
- Designed and implemented a decentralized, secure, sharded storage node optimized for high-throughput video streaming
- Achieved x2 storage performance after architectural redesign and I/O path optimization
- Built high-performance client SDKs in Go, Java/Kotlin, and JavaScript with a unified API surface
- Integrated the platform with the Polkadot network to leverage on-chain security and utility features
- Designed and implemented a secure, high-throughput P2P protocol tailored for storage workloads
- Implemented anti-entropy mechanisms (e.g., Merkle/gossip reconciliation) to maintain node consistency under churn
- Designed and implemented cryptographic proofs for data replication, consistency, and content delivery, enforcing correctness and SLA guarantees



**Senior Data Engineer**  
EPAM

Mar 2020 - Oct 2021  
(United States)

**Applied skills:** *Java, JavaScript · Apache Beam · Spring Framework, RxJava2 · Cassandra, MySQL, Couchbase · Kafka · GCP (BigQuery, Google Storage, Dataflow, Firestore, Cloud Function, Dataproc, Pub/Sub, Cloud Scheduler) · Jenkins, Maven · Kubernetes · Grafana, Prometheus, ELK ·*

DataHub for a major US delivery company with data pipelines and machine learning to calculate optimal delivery routes

**Key results:**

- Optimized system architecture to save 10% in infrastructure spend, replacing high-cost components with lower-cost equivalents that met all requirements
- Delivered a low-code data-migration framework for Oracle → GCP with plug-in pipelines and schema-aware templates
- Optimized the data-persistence path, delivering 5% faster writes in production while maintaining reliability and SLAs
- Integrated new components with the legacy platform via an adapter/compatibility layer, enabling backward compatibility and a gradual rollout without disrupting existing

 **Senior Software Engineer**  
PieSoft

May 2017 - Apr 2020  
(United States)

**Applied skills:** Java, Kotlin · Spring Framework · MySQL, CouchDB, Redshift · AWS · Spark, Hadoop ·

Scaled a GPU-accelerated Wi-Fi coverage algorithm—modeling building heights and wall materials—from a single node to a distributed cluster, enabling citywide simulations.

**Key results:**

- Distributed GPU-based algorithms to evaluate thousands of placement scenarios in parallel
- Built the execution platform and a web console for monitoring and control

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## Education

 **Belarusian State University of Informatics and Radioelectronics**  
BSUIR

🎓 Master's Degree, Computer Science, (2021-2024)  
Belarus