

# Irfan Šarić

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Versatile and impact-driven Senior Software Engineer with over 10 years of experience designing, building, and scaling complex backend systems. Proven track record in fintech, blockchain, decentralized infrastructure, and high-performance distributed computing. Adept at leading engineering teams, defining architectures, and delivering robust solutions across cloud-native and low-level systems.

## Skills

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**Languages:** Go, Python, Java, C, TypeScript, Rust, Solidity, C#

**Frameworks:** Spring Boot, FastAPI, Flask, SQLAlchemy, Pandas, Celery, Next.js

**Cloud & Infra:** AWS, GCP, Kubernetes, Docker, Jenkins, Ansible, GitHub Actions

**Messaging & Protocols:** Kafka, RabbitMQ, MQTT, AMQP, WebSockets, TCP/IP

**Data & Storage:** PostgreSQL, Cassandra, MongoDB, Redis, Elasticsearch, S3

**Standards:** REST, OpenAPI, JSON, XML, OAuth2, OpenBanking. Git, Linux

**Blockchain:** Ethereum, Solana, Bitcoin, Smart Contracts (Solidity, Rust), IPFS, DHT

**Dev Practices:** Microservices, CQRS, CI/CD, System Design, ETL Pipelines, Secure Auth

## Experience

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**Protolabs** | *Senior Software Engineer*

*Amsterdam, Netherlands* | November 2025 - Current

- Developed workflows for logistics and pricing for customers for factory shipping with support for ocean, freight and road transport; utilizing partners like DHL and providing our own services
- Increased the visibility and availability, while migrating solutions from legacy systems into new ones for various manufacturing and logistics tools, like DFM, packaging optimization, tracking
- **Tech Stack:** Java, Python, PostgreSQL, Redis, K8s, DataDog, GH Actions

**Unifonic** | *Lead Software Engineer*

*Remote* | June 2025 - Current

- Leading a team of 6 engineers for the Unifonic core platform development and maintenance
- Mentoring and helping team members take ownership and increase their impact across product lines
- Increased transaction volumes by 120% and reduced latency by 60%, which enabled client count growth, retention and value
- Implemented company and system wide probing and observability platform for managing omnichannel reliability, reducing incident response time
- Implemented new workflows for testing, which increased our quality, resilience and release process while maintaining development velocity
- **Tech Stack:** Java, Go, Python, PostgreSQL, MySQL, Redis, Linux, K8s, ArgoCD, DroneCI

**HiveNet** | *Senior Software Engineer*

*Marseille, France* | March 2024 – May 2025

- Engineered a cross-platform desktop/server client enabling decentralized compute and storage
- Extended and optimized the IPFS protocol with a custom DHT implementation, improving data availability and lookup performance
- Designed and implemented a robust decentralized task scheduling system with dynamic node allocation, improving compute distribution by 40%
- Refactored and modularized legacy peer codebase, increasing stability across Linux, macOS, and Windows nodes
- Collaborated with R&D on consensus and fault-tolerant algorithms for decentralized task execution
- **Tech stack:** Go, Python, C++, PostgreSQL, SQLite, Redis, Linux, Windows SDK, MacOS, AWS, K8s

**Blap.finance** | *BackEnd Lead Engineer*

*London, UK* | April 2023 – April 2024

- Led backend design and infrastructure for a financial platform integrating crypto (ETH/BTC) and OpenBanking payments
- Built highly available infrastructure with AWS ECS, PostgreSQL (multi-AZ), and CI/CD via GitHub Actions
- Designed modular architecture supporting KYC (Sumsb), fraud detection, AML monitoring, and 3D secure transaction flows
- Successfully onboarded banking providers (Bankera, Paynetics) and a liquidity provider (Hercle), accelerating time-to-market by 6 weeks
- Facilitated strategic technical discussions with co-founders and investors, aligning product roadmap with scalable backend design
- **Tech Stack:** Java, Go, Python, PostgreSQL, Redis, NATS, OpenSearch, AWS, K8s

**Rally eCommerce** | *Blockchain Tech Lead*

Portland, OR, USA | October 2021– March 2023

- Spearheaded architecture and engineering roadmap for NFT checkout, Solana minting, and crypto payments (Coinbase, EVM)
- Designed and deployed smart contracts in Rust for Solana, achieving sub-second minting performance
- Scaled the platform's crypto payment infrastructure to support >\$60M in annual GMV
- Introduced team KPIs and delivery metrics, improving engineering output visibility and cycle time
- Led backend and DevOps across AWS, Kubernetes, and internal monitoring systems
- **Tech Stack:** Go, Python, Rust, TypeScript, Redis, PostgreSQL Kafka,, OpenSearch, AWS, K8s

**General Protocols (BCH)** | *Senior Software Engineer*

Singapore | March 2020 – September 2021

- Developed critical services for AnyHedge, including oracle and hedging logic for BCH smart contracts
- Automated deployment pipelines for oracle clusters using Kubernetes on AWS, reducing downtime by 30%
- Implemented secure networking layers for high-availability financial data distribution
- **Tech Stack:** Go, TypeScript, Redis, SQLite, AWS

**SwissBlockTech A.G.** | *Backend Engineer*

Zug, Switzerland | March 2019 - April 2020

- Built a distributed data ingestion pipeline across 10+ financial data sources using Go, Kafka, gRPC, and Cassandra
- Created a low-latency portfolio management system supporting complex algorithmic strategies and CMAs
- Developed custom backtesting framework for real-time trade simulations and OHLCV-based indicators
- **Tech Stack:** Go, Python, C++, Redis, Kafka, PostgreSQL, Cassandra, GCP, K8s

**NAGA Group A.G.** | *Software Developer*

Hamburg, Germany | June 2016 - March 2019

- Designed and launched real-time data distribution layer using MQTT and FIX for live stock quotes and trading data
- Helped lead the ICO backend development for the NAGA Wallet, supporting ERC20 and major cryptocurrencies (Raised \$45M in 15 days)
- Delivered scalable microservices for trading, chat, social features, and integrations with MetaTrader 4
- Built core modules for NAGA Exchange (<https://nagax.com>) including wallet, auth, and risk systems
- **Tech Stack:** Go, Scala, Java, C++, PostgreSQL, Elasticsearch, Redis, RabbitMQ, Kafka, EMQX/MQTT, AWS, K8S

**GENIJALNO.BA O.D.** | *Junior Software Developer*

Sarajevo, Bosnia and Herzegovina | May 2015 - June 2016

- Developed and maintained backend services and UI components across 4 projects
- Acted as backend lead and architect on MotiffNetwork, using Node.js, AngularJS, PostgreSQL, and Elasticsearch
- Refactored and supported the CoinDesk Android App (since deprecated)
- Built real-time messaging and data flow features using ZeroMQ
- **Tech Stack:** JavaScript, PostgreSQL, Redis, Linux, AWS, Docker

**BMA d.o.o.** | *Junior Software Developer*

Sarajevo, Bosnia and Herzegovina | November 2013 - July 2014

- Developed core backend systems in C and C# .NET for SMS and VoIP marketing solutions (<https://www.ekomesaj.com.tr/>)
- Built SMPP-based service with multichannel persistence support (Redis, MongoDB, MySQL)
- Created iOS app from scratch for SMS campaign control (deployed to App Store) [\(Link\)](#)
- Delivered real-time VoIP/Fax services using SIP protocol and RESTful API backend
- **Tech Stack:** C, C#, Objective-C, MongoDB, Redis, MySQL

**Additional Experience (Consulting & Contract Work)**

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**Motiff Network** | *Senior Software Engineer (Consultant)*

Chicago, IL, USA | April 2020 - April 2021

- Led backend architecture and DevOps for two SaaS products: FindTruckService (US logistics) and TeleMeet (video conferencing)
- Architected scalable microservices using Go, PostgreSQL, and Kubernetes; enabled 99.9% uptime for real-time services
- Managed BE engineering team delivery; implemented CI/CD pipelines and AWS-based deployment workflows
- Refactored legacy systems for performance and scalability improvements
- **Tech Stack:** Go, TypeScript, PostgreSQL, Redis, K8s, AWS

**Evolt d.o.o.** | *Senior Software Engineer (Consultant)*

Ljubljana, Slovenia | March 2020 - January 2021

- Developed a distributed crypto market data collection platform using Go, gRPC, Celery, and PostgreSQL
- Integrated financial APIs (PSD2, Fiducia, BankVerlag, EBICS) to support OpenBanking services
- Designed system for high-throughput data ingestion and real-time analytics for banking/crypto analysis
- **Tech Stack:** Go, Python, PostgreSQL, InfluxDB, Redis, AWS, K8s

## Projects & Contributions

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### Genesys Vault | [GitHub Repo](#)

*Solana | Blockchain | Smart Contract*

- AES-256 encrypted data storage contract built on Solana. Enables secure, decentralized document storage with smart contract control.

### EVM Starer | [GitHub Repo](#)

*EVM | Blockchain | Boilerplate*

- Minimal boilerplate project for EVM development. Used for prototyping and teaching EVM contract workflows with structured deployment.

### Voxelized | [GitHub Repo](#)

*Desktop | OpenGL | Physics*

- C++ OpenGL simulation of voxel-based particle gravity. Demonstrates performance tuning, visual rendering, and physics simulation.

### MQTT/Kafka Router Plugin | [GitHub Repo](#)

*Messaging | Erlang | Infrastructure*

- Custom plugin for EMQTT broker cluster. Enables low-latency message routing to Kafka, used in multiple production deployments.

### OCPP Service | [GitHub Repo](#)

*Service | EVs | Embedded*

- Integration and runtime for EV charging stations using OCPP protocol. Written in Go, designed for deployment on Raspberry Pi controllers.

### MQTT Cluster Setup | [GitHub Repo](#)

*Messaging | Erlang | Infrastructure*

- Lightweight clustered EMQTT/EMQX broker configuration with role-based authorization and basic HA setup.

### MQTT Auth API | [GitHub Repo](#)

*Messaging | Erlang | Infrastructure | Authorization*

- Authorization microservice for MQTT brokers. Includes database migration scripts, JWT token auth, and deployment configuration.