



Musa Leshkov

Senior Software Engineer & Architect

 [Website](#)

 [LinkedIn](#)

 MusaLeshkov@gmail.com

 +359 89 563 7307

 [GitHub](#)

 [Let's talk](#)

Passionate Software Engineer and Architect who loves building scalable platforms, AI-powered products, and developer-first solutions with clean architecture, high performance, and a sharp product mindset.

I work where architecture, product, and engineering execution meet — turning ambitious ideas into maintainable systems that create measurable business value.

Stack: TypeScript, Angular, React, Next.js, Node.js, AWS, Azure, Docker, Kubernetes, Terraform, and AI/LLM platforms.

WORK EXPERIENCE

Wienerberger — Senior Full-Stack Engineer / Architect — Full-time contract — 07/2025 to 03/2026 | Vienna, Austria

Designed and delivered a multi-region enterprise web platform powering multiple brands across Europe. Defined the architecture and technical strategy for a new multi-region storefront platform, aligning engineering direction with business goals.

IndagoAI — Senior Full-Stack Engineer — Part-time contract — 07/2025 to 03/2026 | New York, United States

Built enterprise Angular applications for analytics and AI-driven workflows, including shared architecture, state management, testing, visualization, and AWS delivery.

Freelance / Self-Employed — Senior Full-Stack Consultant— 09/2024 to 07/2025 | Europe

Engineering consultancy for European startups and enterprise clients across frontend, backend, real-time systems, AI integration, and cloud delivery. Owned end-to-end solution design and implementation using React, Angular, TypeScript, Node.js, GraphQL, WebSockets, Docker, and AWS.

ZF Group — Senior Principal Full-Stack Engineer / Team Lead— Full-time contract — 01/2024 to 09/2024 | Brussels, Belgium

Owned frontend architecture for global automotive systems operating within a complex cloud and microservices ecosystem. Specified engineering standards for application architecture, API integration, state management, code quality, documentation, observability, and delivery while working closely with product stakeholders and engineering leadership.

Godel Tech — Senior Full-Stack Engineer / Tech Lead — 09/2022 to 12/2023 | Sofia, Bulgaria / Manchester, England, UK

Delivered enterprise procurement, e-commerce, and AI-enabled platforms using Angular, React, Next.js, Node.js, GraphQL, and cloud infrastructure.

Led a team of more than five engineers, defined technical direction, reviewed architecture decisions, and coordinated delivery with product and engineering stakeholders in **RS Group**.

Playtech — Software Engineer (Frontend Focus) — Full-time contract — 09/2021 to 09/2022 | Sofia, Bulgaria

Developed and modernized production-critical React applications for a high-traffic gaming platform.

Focused on frontend performance, stability, responsive user flows, legacy modernization, production support, and delivery under strict release deadlines.

Freelance / Self-Employed — Full-Stack Software Engineer — 04/2017 to 09/2021 | Europe

Partnered with startups, agencies and enterprise companies across Europe to design and deliver custom web applications.

Fullstack solutions using Wordpress, Angular, React, Java, and Node.js.

Independent Software Project — Full-Stack Software Engineer — Part-time — 10/2015 to 01/2017 | Bulgaria

Contributed to the development of an independent iGaming platform, working on application functionality, backend systems, and scalable software architecture.

PROJECTS

AEM Enterprise Platform & Design System | Wienerberger — Senior Full-Stack Engineer / Architect — 07/2025 to 03/2026

Global Leader in Building Materials & Infrastructure

- Architected a shared enterprise design system and reusable AEM component library (React + Web Components + Storybook + NestJS) powering 7+ European brand sites, enforcing WCAG 2.1 AA accessibility and i18n localization workflows.
- Built headless content APIs using Java 17, OSGi, and Apache Sling, optimizing Dispatcher/CDN caching strategies while reducing origin infrastructure costs.
- Led the end-to-end technical strategy — defining ADRs, setting up Maven/Jenkins CI/CD pipelines, and automating crossbrand deployment rollouts.

Trust-X Enterprise Analytics Platform | IndagoAI — Senior Full-Stack Engineer — 07/2025 to 03/2026

Enterprise AI & Analytics Platform

- Delivered two enterprise Angular 19+ analytics dashboards with a shared modular architecture (NGRx, lazy-loaded feature modules, PrimeNG/Chart.js visualizations) supporting complex enterprise decision-making workflows.
- Designed a serverless data aggregation layer using AWS Amplify, Lambda, DynamoDB, and S3, optimizing build caching to reduce deployment times by ~20%.
- Established cross-cutting testing standards (Jest + Cypress) with 80%+ coverage gates applied equally to UI components and backend API integrations.

Predictive Fleet-Maintenance Platform | Freelance / Self-Employed — Senior Full-Stack Engineer — 09/2024 to 06/2025

Real-time predictive-maintenance platform supporting telemetry.

- Designed a modular Angular micro-frontend architecture (Nx + Module Federation) for real-time telemetry dashboards, integrating TensorFlow.js for on-device CAN-bus anomaly detection.
- Built a high-performance event-driven backend using NestJS, GraphQL Federation, and WebSockets to ingest 10k+ concurrent vehicle data streams, paired with a TimescaleDB/PostGIS geospatial database.
- Delivered the full infrastructure via Terraform on AWS ECS, handling auto-scaling policies for both the WebSocket servers and the frontend static hosting

Global Automotive Innovation Platform | ZF Group — Senior Principal Software Engineer — 01/2024 to 09/2024

Enterprise automotive platform supporting large-scale product development and innovation.

- Led UI architecture for a global automotive platform — establishing React + Zustand + TanStack Query patterns, building a component library in Storybook, and improving frontend stability through architectural refactoring.
- Defined engineering standards for API contract design (REST/gRPC) and observability (Datadog/OpenTelemetry) across 15+ backend microservices built in Node.js, Go, Python, and Java, ensuring resilient client-side integration via circuit breakers and retry policies.
- Spearheaded cross-functional initiatives to decouple monolithic modules into domain-driven services, reducing production incidents by ~30% while improving feature delivery velocity for UI teams.
- Evaluated AI/LLM platforms for internal engineering knowledge retrieval and requirements analysis, conducting proof-of-concept pilots to assess feasibility for future product roadmaps.

AI-Powered Procurement Intelligence Platform | Godel Tech — Senior Full-Stack Engineer — 12/2022 to 12/2023

B2B SaaS platform using large language models for contract analysis, semantic search, and procurement automation.

- Migrated a B2B procurement platform to an Nx-based Angular monorepo with Module Federation and shared application foundations.
- Built LLM-powered contract summarization, semantic search, and RFQ automation using OpenAI and Azure OpenAI. Designed secure prompt orchestration and role-based access controls for enterprise AI workflows.
- Developed reusable frontend and backend capabilities adopted across multiple product teams.

PROJECTS

Industrial Procurement Platform | RS Group — Senior Full-Stack Engineer / Tech Lead — 09/2022 to 10/2023

B2B Industrial Procurement Platform

- Built server-rendered (Next.js) and SPA customer journeys for a catalog of 750k+ products, leading a team of 5+ engineers on Nx monorepo architecture and micro-frontends.
- Engineered a high-performance GraphQL federation layer (Apollo) and Node.js backend services, optimizing PostgreSQL + Elasticsearch queries to reduce search p95 latency from 800ms to 250ms.
- Established full-stack engineering standards—code quality gates (SonarQube), CI/CD (GitLab), and Terraform IaC—bridging product priorities with technical execution across the entire stack.

Playtech Poker Platform | Playtech — Software Engineer — 09/2021 to 09/2022

High-Traffic Online iGaming Platform

- Modernized a high-traffic React poker platform with code-splitting and lazy-loading, improving core player-journey load times.
- Delivered production-critical API integration fixes and optimized Redux state hydration, reducing client-side timeout errors during peak traffic.

Selected Freelance Projects — Freelance / Self-Employed — Full-Stack Software Engineer — 10/2015 to 09/2021

Partnered with startups, agencies and enterprise companies across Europe to design and deliver custom web applications.

- Delivered 20+ end-to-end production applications — building responsive SPAs (React/Angular) paired with robust RESTful/GraphQL backends (Node.js, MariaDB, Nest.js, Express.js) and payment/finance integrations.
- Owned full project lifecycles: from UI prototyping and state management to database design (MySQL, MongoDB), real-time WebRTC/WebSocket features, and cloud deployment (AWS).
- Independent Software Project (2015–2017): Contributed to backend service architecture, game-logic implementation, and data flows for a distributed gaming platform using Angular, Java and MySQL.

Core Technical Skills

Core Languages: TypeScript, JavaScript (ES6+), Java, HTML5, CSS3, Sass/SCSS, Less; Additional experience with Go, Python, Bash/Shell Scripting and SQL/NoSQL.

Frameworks & State: Angular, React, Next.js, RxJS, NgRx, Redux, Redux Toolkit, Zustand, Signal, TanStack Query.

Backend Engineering: Node.js, NestJS, Express.js, Spring Boot, Spring MVC, Jakarta EE, JPA, Spring Data JPA, Hibernate.

API Engineering: REST APIs, GraphQL, Apollo Federation, gRPC, Protocol Buffers, OpenAPI, AsyncAPI, Third-Party API Integration

Databases & Storage: MariaDB, MongoDB, Redis, Firebase, PostgreSQL, PostGIS, TimescaleDB, PgBouncer, MySQL, Amazon DynamoDB, Amazon ElastiCache, MinIO.

AI & LLM Engineering: OpenAI API, Azure OpenAI Service, TensorFlow.js, PoseNet, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Embeddings, Vector Search, Semantic Search, Prompt Engineering, AI Agents, Function Calling, Tool Calling, LLM Evaluation and Observability, On-Device Machine Learning.

EDUCATION / TRAINING / COURSES

High School Diploma in Mathematics and Informatics

Mathematics and Natural Sciences High School “Acad. Sergey Korolyov” Blagoevgrad, Bulgaria | 2018

Professional Development

Continuous professional development through technical conferences, security labs and specialized training, including React Summit, JSNation, TryHackMe and selected software architecture and Web3 courses.

LANGUAGES

Bulgarian	Native	
English	Proficient	

TECHNICAL SKILLS

UI Engineering: Tailwind CSS, styled-components, PrimeNG, PrimeFlex, Storybook, Web Components, Chart.js, i18next, Responsive Web Design, Design Systems, Internationalization, Web Accessibility (WCAG 2.1 AA).

Architecture & Build: Micro-Frontends, Module Federation, Nx, Monorepo Architecture, Component-Driven Architecture, Single-Page Applications (SPA), Server-Side Rendering (SSR), Static Site Generation (SSG), Vite, Webpack, Rollup, Babel, npm, pnpm, Corepack.

Real-Time & Mobile: WebRTC, WebSockets, Xcode.

Distributed Systems: Microservices, Serverless Architecture, Event-Driven Architecture, Service-Oriented Architecture (SOA), Distributed Systems.

Analytics, Search & Vector Data: Elasticsearch, OpenSearch.

Messaging, Streaming & Workflows: Apache Kafka, RabbitMQ, Schema Registry, MQTT, Amazon SQS, Amazon SNS.

Testing: Jest, Vitest, Jest-Preset-Angular, React Testing Library, Enzyme, Mocha, JUnit, Mockito, Cypress, Playwright, WebdriverIO (WDIO), Cucumber, Pact; Unit, Integration, End-to-End (E2E) and Contract Testing, Test Automation, Code Coverage, Test-Driven Development (TDD), Behavior-Driven Development (BDD).

Code Quality: SonarQube, Qodana, ESLint, Stylelint, Prettier, Static Code Analysis, Code Quality Gates, Maintainability Analysis, Code Reviews.

Application Security & Identity: OWASP, Web Application Security, Cloud Security, Authentication and Authorization, OAuth 2.0, OpenID Connect, JWT, Keycloak, Role-Based Access Control (RBAC), Secrets Management.

DevSecOps: Trivy, Gitleaks, Semgrep, Container Security, Dependency Scanning, Supply Chain Security, Security Scanning in CI/CD.

AWS: Amazon EC2, Amazon S3, Amazon RDS, AWS IAM, AWS Lambda, Amazon API Gateway, Amazon ECS, Amazon EKS, Amazon CloudFront, AWS Amplify, Amazon CloudWatch, AWS Secrets Manager, AWS CloudFormation, AWS CDK.

Microsoft Azure: Azure App Service, Azure Functions, Azure Kubernetes Service (AKS), Azure DevOps, Azure Key Vault, Azure Monitor, Azure Container Registry.

Containers & Orchestration: Docker, Docker Compose, Docker Buildx, Kubernetes, kubectl, Helm, Kustomize, kind, k3d.

Platform Networking & Service Mesh: NGINX, Kubernetes Ingress, Reverse Proxy, Load Balancing, Service Mesh.

Infrastructure & GitOps: Terraform, Argo CD, HashiCorp Vault, Infrastructure as Code (IaC), GitOps.

CI/CD & Build Automation: Jenkins, GitHub Actions, GitLab CI/CD, Maven, Rollback-Safe Pipelines.

Web Performance: Core Web Vitals, Lighthouse, Chrome UX Report (CrUX), Performance Optimization, Code Splitting, Lazy Loading, Caching Strategies, CDN Optimization.

Observability & Monitoring: OpenTelemetry, Prometheus, Grafana, Elastic Stack (ELK), Logstash, Kibana, Loki, Tempo, Alertmanager, Datadog, Sentry, Distributed Tracing.

Architecture & Design: System Design, Clean Architecture, SOLID Principles, Object-Oriented Programming (OOP), Design Patterns, Dependency Injection, API Design, Architecture Decision Records (ADRs), High Availability, Fault Tolerance, Scalability, Horizontal Scaling, Resilience Patterns, Circuit Breaker, Rate Limiting, Idempotency, Eventual Consistency, Disaster Recovery.

Engineering Practices: Agile/Scrum, Pair Programming, Technical Documentation, Configuration Management.

Leadership: Technical Leadership, Architecture Ownership, Engineering Mentorship, Stakeholder Management, Cross-Functional Collaboration.

Development & Collaboration Tools: Linux, Ubuntu, WSL2, macOS, Git, GitHub CLI, JDK 21, Rustup, Cargo, Make, Task, VS Code, JetBrains, DBeaver, Bruno, Jira, Confluence, Figma.

Domain Expertise: Automotive, Industrial Procurement, ERP, SAP, E-commerce, Payment Gateways, Finance Systems, AI and LLM Applications, Data Visualization, Geospatial Systems, Telematics, GPS Integrations, Routing and Optimization, Enterprise Software, Logistics and Supply Chain.