



Musa Leshkov

Senior Software Engineer & Architect

[Website](#)[LinkedIn](#)MusaLeshkov@gmail.com[+359 89 563 7307](tel:+359895637307)[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 Software 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 Software 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 Software Engineer — 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 Software Engineer — 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 Software Engineer / Technical 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 — Software Engineer / Senior 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 iGaming Project — 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 Software Engineer / Architect — 07/2025 to 03/2026

Enterprise AEM platform powering multiple brands and regional sites.

- Led the architecture of a multi-region AEM platform and shared design system powering 7+ applications across multiple European brands.
- Built reusable AEM components, frontend foundations, localization workflows, accessibility standards, and automated delivery pipelines.
- Optimized Dispatcher, CDN, caching, and asset delivery, improving LCP, reducing UI duplication, and accelerating feature development.

Tech: AEM 6.5, AEM Cloud, Java, OSGi, Apache Sling, Sling Models, HTL, Dispatcher, React, TypeScript, Web Components, Storybook, SCSS, Jest, Cypress, Playwright, Maven, Jenkins, GitHub Actions

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

Enterprise Angular platform for analytics dashboards and intelligent workflows.

- Delivered two enterprise Angular applications for analytics dashboards and intelligent workflows, built on a shared modular architecture.
- Designed scalable NgRx state management, reusable UI components, and lazy-loaded feature modules.
- Built interactive dashboards and data visualizations supporting enterprise decision-making.
- Optimized AWS Amplify build and caching strategies, reducing build times by approximately 20%.
- Established automated testing and quality standards, achieving over 80% test coverage.

Tech: Angular 19/20, TypeScript, RxJS, NgRx, PrimeNG, PrimeFlex, Chart.js, Jest, AWS Amplify, Amazon S3, DynamoDB, GitHub Actions

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

Real-time predictive-maintenance platform supporting telemetry.

- Designed a modular Angular micro-frontend architecture for a real-time fleet monitoring and predictive-maintenance platform.
- Built high-performance telemetry dashboards using WebSockets for continuous vehicle data processing and visualization.
- Integrated TensorFlow.js models for CAN bus anomaly detection and early identification of potential maintenance issues.
- Delivered backend services and cloud-ready deployment workflows using NestJS, GraphQL, Docker, AWS, and Jenkins.

Tech: Angular, TypeScript, RxJS, NgRx, Nx, Web Components, TensorFlow.js, NestJS, GraphQL, WebSockets, Docker, AWS, Jenkins

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 frontend architecture for a large-scale automotive platform integrated with a complex microservices ecosystem.
- Defined engineering standards for application structure, code quality, build tooling, documentation, observability, and CI/CD.
- Improved platform stability and maintainability through architectural refactoring, stronger development practices, and systematic defect resolution.
- Provided technical leadership across complex cross-functional initiatives and supported architectural decision-making.

Tech: React, TypeScript, Redux, Zustand, TanStack Query, Storybook, AWS, Terraform, GitLab CI/CD, Datadog

AI-Powered Procurement Intelligence Platform | Godel Tech — Senior Software 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.

Tech: Angular, TypeScript, RxJS, NgRx, Nx, Module Federation, OpenAI API, Azure OpenAI, NestJS, GraphQL, Apollo Federation, Terraform, Datadog

Industrial Procurement Platform | RS Group — Senior Software Engineer / Technical Lead — 09/2022 to 10/2023

Large-scale B2B procurement platform supporting more than 750,000 industrial products.

- Led frontend architecture and development for a large-scale B2B procurement platform offering more than 750,000 industrial products.
- Built scalable product discovery, purchasing, and server-rendered customer journeys using React and Next.js.
- Integrated frontend applications with GraphQL APIs and Node.js backend services.
- Led a team of 5+ engineers and established standards for architecture, code quality, delivery, and collaboration.
- Improved maintainability and feature delivery while aligning technical execution with product priorities.

Tech: React, Next.js, TypeScript, GraphQL, Apollo, Node.js, Terraform, GitLab CI/CD, Datadog

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

High-traffic gaming platform focused on performance, stability, and production-critical feature delivery.

- Modernized legacy React architecture across a high-traffic online poker platform.
- Delivered production-critical features and fixes under strict release deadlines and heavy user load.
- Improved page-load performance, responsiveness, and UI stability across core player journeys.
- Refactored shared frontend foundations to improve maintainability and reduce regression risk.

Tech: React, TypeScript, Redux, Webpack, HTML5, CSS3, Sass/SCSS, GitLab CI/CD

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

- Delivered 20+ production applications across e-commerce, automotive, workforce management, video streaming, wellness, and enterprise automation.
- Designed and developed responsive single-page applications and full-stack platforms using React, Angular, Node.js, Java, and Spring.
- Owned frontend architecture, state management, API integrations, authentication, payments, database design, and real-time functionality.
- Improved performance through lazy loading, caching, optimized data flows, and automated testing.
- Managed projects from initial architecture and implementation through deployment and production support.

Tech: React, Angular, TypeScript, JavaScript, Redux, NgRx, Node.js, Java, Spring MVC, Hibernate, GraphQL, REST APIs, Firebase, MongoDB, MySQL, AWS, WebRTC, TensorFlow.js, PoseNet, GitLab CI/CD

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

Core Languages & Web Technologies

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

Frontend, Mobile & AEM

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

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.

Backend, APIs & AI

Backend Engineering: Node.js, NestJS, Express.js; Additional experience with 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.

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.

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

Data, Search & Messaging

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

Analytics, Search & Vector Data: Elasticsearch, OpenSearch.

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

Testing, Quality & Security

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.

Cloud, DevOps & Platform

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.

Performance & Observability

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 & Leadership

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.

Tools & Domains

Development & Collaboration Tools: Linux, Ubuntu, WSL2, macOS, Git, GitHub CLI, JDK 21, Rustup, Cargo, Make, Task, VS Code, JetBrains, DBBeaver, 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.