Lejla Omerovic

Senior Systems Designer | Solution Architect

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PROFILE

Systems designer with more than 20 years of experience in software development, telecommunications and trading systems. I have worked on system architecture, technical design, data migration, integrations, billing, rating, roaming, wholesale management and trading platforms. My work involves understanding requirements, designing solutions, preparing technical documentation and working closely with development teams during implementation and testing.

WORK EXPERIENCE

NorthStar Fintech | September 2026 | Remote

Systems Design Consultant – Contractor

- Worked on an innovative AI-enabled trading solution and helped define the system that needed to be built.
- Identified the main system modules, components and integration points required for the product.
- Estimated development effort, timeline and cost, and compared build-versus-buy options for ready-made components.
- Prepared structured system-design output for investors and supported the evaluation of the business and technical feasibility of the solution.

Alkadev | June 2026 – November 2026 | Remote

Founder / Software Architect and Developer – Independent Project

- Designed and developed Alka, a Java framework for building component-based services, where plugins (processing components) and managers (shared resources such as connections and caches) are packaged as JARs and wired together through configuration files.
- Designed in-process communication between components, with no message broker or network hop between them, and an annotation-based settings system that generates configuration forms automatically.
- Developed Alka Studio, a graphical tool for composing services by deploying JARs, drawing connections between components, editing settings, validating services before start, starting and stopping them, and browsing versioned configuration history, filtered logs and live per-component counters.
- Created a Maven archetype and a Maven plugin (alka:deploy) for generating sample projects and deploying components directly to Alka Studio.
- Published the API, Maven plugin, generator and samples as open-source (Apache 2.0) artifacts on GitHub and Maven Central, and licensed the engine and Studio under PolyForm Noncommercial with commercial licensing on request.
- Technologies: Java 21+, Maven, Maven Central, GitHub, IntelliJ IDEA.

ByteBuds | March 2026 – Present | Remote

Senior Solution Designer – Contractor, Client Assignment

- Engaged through ByteBuds and assigned to a telecommunications client working with telecommunications tower infrastructure.
- Worked across CRM, Product Catalogue, UOM and Billing domains.
- Designed improvements to existing systems and analyzed new business and technical requirements.
- Prepared solution designs and supported the refinement and implementation of requested changes across the systems.

ByteBuds | March 2025 – July 2025 | Remote

Solution Architect / Contractor

- Worked on a distributed telecommunications platform consisting of a web application, Java backend services and an Oracle database.
- Prepared Blueprint, High-Level Design and Software Design Document materials.
- Designed integrations using Apache Kafka, REST APIs and TM Forum Open APIs.
- Prepared YAML/OpenAPI specifications and designed data flows, messaging workflows and interfaces between system components.

MRJ Ltd | January 2019 – January 2026 | Remote

Senior Trading Systems Engineer / Contractor

- Designed and developed most of the core Java components for trading and data-processing systems.
- Worked on the design and development of a configurable flow-processing platform based on a plugin architecture, connecting trade feeds, quote feeds, orders, databases and WebSocket services.
- Designed and developed the database layer used to store and manage billions of tick and bar records.
- Created and developed high-performance live market-data endpoints for reading and writing data, with a strong focus on speed and reliability.
- Designed and developed a Trading OMS covering accounts, positions, orders and risk settings.
- Developed reusable system components that can be extended with new data sources and integrations.

Centrix Plus | October 2024 | Remote

External Contractor / Software Developer

- Developed a MetaTrader 5 Server Plugin DLL to extract deal transaction data and send it to external systems through REST APIs.

ZIRA Ltd | February 2006 – December 2018 | Sarajevo

Senior System Designer / Software Engineer

Senior System Designer | 2017 – 2018

- Led the design of a migration of approximately ten years of historical transactional data for STC Saudi Arabia.
- Designed parts of the Trading and Routing Wholesale Management solution related to transactions, charging and wholesale management.
- Worked as Lead System Designer on a wholesale roaming solution for VIVA Bahrain, including requirements analysis and system design.

Earlier roles | 2006 – 2016

- Designed and developed an ETL solution for extracting, transforming and loading data from databases and raw files. Worked on the database layer, core-engine design, C++ development and database maintenance.
- Supported BH Telecom rating and billing systems, including troubleshooting and handling upgrade requirements for ADSL and VoIP services.
- Participated in end-to-end rating and billing testing for MTel Bulgaria and SiMobil Slovenia, including rated-CDR validation, tariff-plan checks and test-environment setup with BSC, HLR and databases.
- Worked on ZIRA Fraud Management for Turk Telecom, including customer-system analysis, solution design and onsite implementation.
- Designed and implemented an Insertion component for a billing solution for iNew Austria and also acted as team lead.
- Designed and implemented automated invoice assurance for STC interconnect settlement.
- Worked directly with international clients and project teams, including onsite work and implementation support.

TECHNICAL SKILLS

Systems design and architecture: HLD, SDD, Blueprint, requirements analysis, system modeling, data flows and technical specifications
Telecommunications: OSS/BSS, billing, rating, charging, roaming, interconnect settlement, wholesale management, fraud management and CDR processing
Integrations: REST APIs, TM Forum Open APIs, Apache Kafka, WebSocket, messaging and distributed services
Programming and databases: Java, C++, C, Oracle PL/SQL, UNIX Shell scripting, Oracle and PostgreSQL
Trading systems: OMS, trade feeds, quote feeds, accounts, positions, orders, risk settings and simulation systems

EDUCATION

University Degree in Mathematics and Computer Science — Faculty of Natural Science and Mathematics, University of Sarajevo | 2002 – 2009

LANGUAGES

Bosnian — Native | English — Professional working proficiency | German — Basic