

# OLEKSANDR SHTYKHNO

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## OBJECTIVE

Seeking a Software Engineer / Solution Architect position where I can apply 20+ years of expertise in JVM and cloud technologies to deliver innovative, scalable solutions and contribute to challenging, impactful projects.

## QUALIFICATIONS

- **20+ years in Software Development and Architecture**
- **15+ years in Java Development:** Using various technologies to solve complicated business tasks, engineering, supporting, and deploying enterprise software to different environments and application servers.
- **8+ years in Scala Development:** Using Lightbend/ZIO technology stack to design and develop highly scalable and resilient software.
- **15+ years in Agile Development:** Developing software using Agile and rapid development techniques, test-driven style for creating good code design and quality, applying continuous integration into the development process.
- **2.5 years in System Administration:** Supervising enterprise networks and servers, sharing and granting Internet and Intranet services among clients.

## PROFESSIONAL SKILLS

- Object-oriented programming, Functional programming
- Designing and developing server-side applications
- Microservice-based software development
- Big Data solutions
- Reactive programming
- Solution and Enterprise Architecture

## RECENT WORK EXPERIENCE

### Software Engineer ING, Netherlands | Nov 2025 - Present

Executing an assignment in the Data Customer NL domain.

**Technology stack:** Scala 2, Cats, Kafka, Postgres, Oracle.

**Challenges and achievements:**

- Removed the outdated stabilizer module from the critical application to improve maintainability and reduce technical debt.
- Implemented migration to Simulation TestKit to automate PACT integration testing, reducing manual effort and improving system validation speed.

**Freelance Scala/Go Engineer, Shell Recharge, Netherlands | Nov 2024 - Nov 2025**

Executing an assignment in the MSP (Mobility Service Provider).

**Technology stack:** Scala 2/3, GoLang, Cats, ZIO, Akka, Kafka, Postgres, DynamoDB, AWS, K8s, DataDog.

**Challenges and achievements:**

- Participated in the migration of the charging cards data to a third-party system, ensuring data consistency and availability.
- Migrated a microservice from Akka HTTP to ZIO, modernizing 30+ endpoints for improved performance, testability, and functional purity.
- Rewrote a Scala-based microservice in Golang, achieving better resource efficiency and aligning with team tech stack evolution.
- Resolved critical Kafka consumer issues, eliminating message processing bottlenecks and restoring system reliability.
- Designed and implemented a universal rate limiter using ZIO middleware, enabling consistent traffic control across services and protecting downstream systems.
- Built a scouting and testing microservice, used for internal diagnostics and exploratory testing, improving developer productivity.
- Improved Kubernetes rollback procedures, fixing deployment issues and enhancing CI/CD resilience.

**Freelance Scala Engineer/Solution Architect, FedEx Express, Netherlands | Jun 2018 - Nov 2024**

Developing, delivering, supporting, and monitoring microservice-oriented software and architecture, coordinating with stakeholders, coaching, reviewing technical solutions.

**Technology stack:** Scala, Cats, ZIO, Akka, Kafka, Cassandra, Postgres, Oracle, ElasticSearch, AWS, K8s, Azure.

**Challenges and achievements:**

- Rewrote Node.js/Postgres core microservice to ElasticSearch/Cassandra to improve reliability and performance.
- Organized data export from Cassandra using S3/Blob Storage.
- Migrated the whole platform to Kafka 2.x with no downtime using additional consumers and gradually switching producers.
- Added support for Azure Blob Storage/S3.
- Developed and supported Track&Trace platform functionality.
- Migrated the whole platform to Kubernetes and highlighted JDK pitfalls regarding resources (CPU, memory).
- Upgraded to Scala 2.13 and further to Scala 3 including common libraries with cross-compilation.
- Added gRPC interface to some applications for internal communications.

- Migrated the whole platform from AWS to Azure incrementally with no downtime.
- Migrated Kafka support between clouds with no downtime.
- Migrated from AWS S3 to Azure Blob storage.
- Reviewed assessments and interviewed potential team candidates.
- Updated ElasticSearch taking into account breaking changes.
- Migrated to GitHub Actions from Jenkins, developed custom pipelines and build images.

### **Senior Software Engineer, Bol.com, Netherlands | Nov 2015 - Jun 2018**

Developing, delivering, supporting, and monitoring microservice-oriented software and architecture.

#### **Highlights:**

- Imported and exported data between Hadoop and runtime environment.
- Developed SQL, NoSQL, and full-text search solutions.
- Extended message-based and reactive architecture.

### **Senior Software Engineer, AssetControl, Netherlands | Sep 2010 - Nov 2015**

Supporting, designing, developing, and delivering software for managing reference data within financial institutions.

#### **Challenges and achievements:**

- Implemented mobile version of the operational dashboard which shows data feed activity in real-time.
- Designed and developed risk data manager which provides a useful instrument to manipulate financial data represented as curves.
- Developed internal dashboard for showing build system status, request tracker status, and customer activities in real-time.
- Improved framework for test automation with different scenarios and large amounts of data.
- Designed and developed module for monitoring feed processes and displaying results in runtime.
- Designed, developed, and delivered JIRA plugin for improving Agile methodology in the company.
- Designed, implemented, and supported internal dashboard.
- Organized, designed, and executed JIRA data migration to the new version.
- Trained as a company Security Officer.

## **EDUCATION**

**Master's degree, Computer Engineering | 1997 - 2003 National Technical University of Ukraine 'Kharkiv Polytechnic Institute'**

## **CERTIFICATES**

- The Complete Prompt Engineering for AI Bootcamp (Udemy, 2025)
- Learn Rust by Building Real Applications (Udemy, 2024)
- Software Architecture: From Developer to Architect (LinkedIn, 2024)
- Certified Kubernetes Application Developer (CNCF, 2020)
- Scala Advanced (Udemy, 2018)
- Google Cloud Platform (Coursera, 2017)
- Machine Learning with Big Data (Coursera, 2016)

- Hadoop Platform and Application Framework (Coursera, 2016)
- Functional Program Design in Scala (Coursera, 2016)
- Core ElasticSearch (elastic.co, 2016)
- MongoDB for Java Developers (MongoDB, 2016)
- Play for Java Developers (Typesafe, 2013)
- Principles of Reactive Programming (Coursera, 2013)
- Functional Programming Principles in Scala (Coursera, 2013)
- Algorithms (Coursera, 2013)
- Google Advanced Power Searching (Google, 2013)
- Oracle Certified Enterprise Architect (Step 1) (Oracle, 2011)
- Sun Certified Business Component Developer (Sun, 2007)
- Sun Certified Web Component Developer (Sun, 2006)
- Sun Certified Java Programmer (Sun, 2006)

## LANGUAGES

- **Ukrainian:** Native or bilingual proficiency
- **English:** Full professional proficiency
- **Dutch:** Elementary proficiency, B1