

OLEKSANDR SHTYKHNO

BASIC INFORMATION

North Holland, Netherland

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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 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

Freelance Scala/Go Engineer

Nov 2024 - Present

Shell Recharge, Netherlands

Executing 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 over 30+ endpoints for improved performance, testability, and functional purity
- rewritten 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

June 2018 – Nov 2024

Fedex Express, Netherlands

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 nodejs/postgres core microservice to elasticsearch/cassandra to improve reliability and performance
- organised 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 evolutionary 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

Nov 2015 – June 2018

Bol.com, Netherlands

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

Highlights:

- import/Eexport data between Hadoop and runtime environment
- developing SQL, NoSQL and full-text search solutions
- extending message based and reactive architecture

Senior Software Engineer

Sep 2010 – Nov 2015

AssetControl, Netherlands

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 feeds activity in the realtime
- designed and developed risk data manager which provides useful instrument to manipulate financial data represented as curves
- developed internal dashboard for showing build system status, request tracker status, customers activities in the real time
- improved framework for test automation with different scenarios and big amount 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 company
- designed, implemented and supported internal dashboard
- organised, designed and executed JIRA data migration to the new version
- trained as a company Security Officer

EDUCATION

Master degree, Computer Engineering

1997 - 2003

National Technical University of Ukraine 'Kharkov 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)