

# OLEKSANDR SHTYKHNO

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## BASIC INFORMATION

North Holland, Netherland  
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## OBJECTIVE

Seeking Software Engineer / Solution Architect position to apply my professional skills in a challenging and interesting assignments

## 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) team to replace Akka-HTTP web framework to ZIO-HTTP using Tapir as REST endpoint definitions, rewrite microservice to GoLang

Technology stack:

Scala 2/3, GoLang, Cats, ZIO, Akka, Kafka, Postgres, AWS, K8s, DataDog

## 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

National Technical University of Ukraine 'Kharkov Polytechnic Institute'

1997 – 2003

## CERTIFICATES

- Sun Certified Java Programmer, 2006
- Sun Certified Web Component Developer, 2006
- Sun Certified Business Component Developer, 2007
- Oracle Certified Enterprise Architect (step 1), 2011
- Google Advanced Power Searching, 2013
- Algorithms, (coursera, 2013)
- Functional Programming Principles in Scala, (coursera, 2013)
- Principles of Reactive Programming, (coursera, 2013)
- Play for Java Dev, (typesafe, 2013)
- MongoDB for Java Developers (mongodb, 2016)
- Core Elasticsearch (elastic.co, 2016)
- Functional Program Design in Scala (coursera, 2016)
- Hadoop platform and Application framework (coursera, 2016)
- Machine Learning with Big Data (coursera, 2016)
- Google Cloud Platform (coursera, 2017)
- Scala Advanced (udemy, 2018)
- Certified Kubernetes Application Developer (CNCF, 2020)
- Software architecture: From Developer to Architect (linkedin, 2024)

## PROJECTS

- Upwork ([https://www.upwork.com/o/profiles/users/\\_~018982773flafbcac9/](https://www.upwork.com/o/profiles/users/_~018982773flafbcac9/))
- Scala Koans online (<http://scalakoans.herokuapp.com>)
- WorkHours – handbook on schedule (AppStore)
- Belrrational – time management application for irrational thinking people (AppStore)
- WikiQuoter – wikiquote.org feed (AppStore)
- DutchGrammar – handbook on Dutch language grammar (under development).

## LANGUAGES

- Ukrainian (Native or bilingual proficiency)
- English (Full professional proficiency)
- Dutch (Elementary proficiency, B2)