

# Alexey Rodiontsev

+31 6 26225563  
alex.rodiontsev@gmail.com  
alex.rodiontsev  
github.com/klappvisor  
mylifeecho.com  
Vancouver, Canada

## Summary

Software engineer since 2011 with strong knowledge and interest in software development. Experienced in building web applications from scratch using Java as well as .NET technology stack: all layers, from database, business logic to user interface. Expertise in media streaming and video content protection systems. Worked mainly in international teams following Agile practices. Interested in web and mobile development, functional programming, machine learning and continuous education.

## Professional Skills

### Technical skills

Generic OOP, Functional programming, SOLID, Design patterns, Agile (Scrum, Kanban)  
Languages C#, Java, Scala, JavaScript, Python, Haskell

### Technologies and frameworks

Java Java 8, Jersey, JPA, Hibernate, Guice, Jetty, Android  
C#/.NET ASP.NET MVC, LINQ, Entity Framework, WCF(SOAP/REST)  
Databases MS SQL, PostgreSQL, ElasticSearch, Redis, SQLite

### Tools

IDE IntelliJ IDEA, Visual Studio, Vim  
Others Docker, Kafka, Jenkins, AWS, git, Subversion, Maven, Gradle, L<sup>A</sup>T<sub>E</sub>X

## Employment History

### Amazon

NOV 2017– **Software Development Engineer, Amazon**  
PRESENT International Country Expansion team. Worked on Amazon retail website, server-side and client-side. Amazon shopping application both Android and iOS

### Irdeto B.V.

APR **Senior Software Engineer, Irdeto B.V**  
2015–OCT Worked on video protection product written in Java 8 in functional style, integrated with  
2017 multiple video streaming technologies. Quickly became one of the key engineers on the project. Active contributor to shared source code project within the company used internally by different teams.  
NOV **Software Engineer, Irdeto B.V**  
2013–APR Development of scalable, high performance RESTful API for full text search of video content  
2015 metadata. Migration from existing SQL and C# based legacy solution to ElasticSearch and Java based one. Key role in database design and integration with ElasticSearch.

## Sibers Group, Ltd

APR **Senior .NET Software Developer**, *Sibers Group, Ltd*  
2011–AUG Passed through the all steps from junior to senior developer. Took a major part in full  
2013 development life cycle of several projects based on .NET Framework, new projects estimation  
and supervised trainees.

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## Projects

JULY 2015– **Media Protection System**, *at Irdeto B.V*

PRESENT Multi-tenant backend video protection system for VOD and Live content. Integrated with  
multiple media streaming technologies such as HLS, CENC/DASH and many DRM systems:  
PlayReady, Widevine, FairPlay Streaming, Adobe Primetime, inhouse system.  
Extensively using functional programming techniques.

Responsibilities Important role in all aspects of product development: design, implementation and testing  
new features. Responsible for integration with streaming technologies and DRM systems.  
Adopting functional programming for Java to deliver high quality product.  
Key role in spreading knowledge within the team and building cross-functional team.  
Participated in building CI infrastructure based on Jenkins and Docker.

Technologies Java 8, Scala, Hibernate via JPA, PostgreSQL, Kafka, Guice, Jersey, TestNG, Jetty, Maven,  
Docker

NOVEMBER **Search & Discovery**, *at Irdeto B.V*

2013–JULY REST and Java API to search video metadata presented in the system, part of bigger OTT  
2015 solution. Migration from C# and SQL solution to Java and ElasticSearch

Responsibilities Design and development of scalable REST API on top of ElasticSearch for full text search.  
I started from proof of concept and it has resulted in fully functional solution, designed  
Search DSL.  
Responsible for interaction with ElasticSearch (writing and optimizing search queries, cor-  
rect document analysis, multilingual support), performance testing

Technologies Java 7/8, ElasticSearch, Spring, Jersey, Jetty, Maven, JUnit, Amazon EC2, BlazeMe-  
ter/JMeter

2012–2013 **Online photo album editor**, *at Sibers*

Online photoalbum editor with server side rendering

Responsibilities Design and implementation of SaaS application, work on GDI+ image renderer. Single  
page application using Backbone.js, HTML5, CSS3, integration with Picasa/Google+ and  
Facebook

Technologies ASP.NET MVC 4/Web API, EF Code First, Backbone.js, Twitter Bootstrap, Google API,  
Facebook Graph API, HTML5, CSS3

2011–2012 **Medical system for self diagnostics**, *at Sibers*

Medical system for self-diagnosis based on Orchard CMS.

Responsibilities Database design, implementation of Orchard CMS modules for the system, mobile web  
version based on jQuery Mobile, integration with Google API

Technologies Orchard CMS, Fluent NHibernate, WCF WebApi, iTextSharp, jQuery, jQuery Mobile,  
Google Maps, Google Analytics

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## Open Source Contribution

JAN 2016– **Telegram Bot API for Haskell**, *personal open source project*  
PRESENT Telegram Bot API library based for Haskell (mentioned on official [Telegram Web site](#)).  
Project follows best practices and has number of contributors  
Technologies Haskell, Servant, HSpec, Stack, CircleCI

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## Education

2010–2012 **M.Sc. Physics**, *Novosibirsk State University*, Novosibirsk, *Russia*  
2006–2010 **B.Sc. Physics**, *Novosibirsk State University*, Novosibirsk, *Russia*

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## Certifications

**Certified Widevine Implementation Partner** *CWIP*

**Oracle Certified Associate, Java SE 8 Programmer**

**Microsoft Certified Solutions Developer: Web Applications** *MCSD*, *Transcript ID: 1035553*, *Access Code: AlexRodiontsev*, ([verification](#))

**Microsoft Specialist: Programming in HTML5 with JavaScript and CSS3** *MS*

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## Independent Coursework (with certificates of accomplishment)

Coursera

JUNE 2015 **Principles of Reactive Programming**, *Ecole Polytechnique*  
DEC 2014 **Functional Programming Principles in Scala**, *Ecole Polytechnique*  
AUG 2013 **Cryptography I**, *Stanford University*  
AUG 2013 **Algorithms: Design and Analysis, Part 1**, *Stanford University*

edX

JAN 2016 **Introduction to Functional Programming**, *DelftX*, FP101x  
AUG 2015 **Scalable Machine Learning**, *BerkeleyX*, CS190.1x  
JULY 2015 **Introduction to Big Data with Apache Spark**, *BerkeleyX*, CS100.1x  
SEPT 2013 **Software as a Service**, *BerkeleyX*, CS169.2x  
OCT 2012 **Software as a Service**, *BerkeleyX*, CS169.1x

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## Languages

English Good reading, written and verbal skills  
Russian Native