



Josef Vlach

+44 7546 497833 vlach.josef@gmail.com 160 Grange Road E13 0HB London

Profile

I'm highly passionate functional programmer. My languages of choice are Scala and Haskell. By learning Haskell I got better understanding about Scala itself. I'm motivated, responsible and creative software engineer now working as a Lead Backend Developer in mobile game company, looking forward to facing new challenges. I'm effective team worker pleased to help my colleagues and learn from them. You can find me and my blog on my personal website: <http://vlachjosef.com>

Skills

PROGRAMMING LANGUAGES:

Scala, Java, Javascript, Haskell, Emacs Lisp, SQL

BACKEND:

Akka, Spray, Play framework, Spark, Shapeless, Scala Test, Scala Check, scalaprops, Cats, Scalaz, Slick, protobuf, Spring (see below)

UI/WEB:

HTML5, AngularJS, jQuery, ScalaJS, Bootstrap, lodash, Bower, GruntJS

DB:

Redis, MongoDB, MySQL, PostgreSQL, Oracle

DEVOPS:

AWS, Ansible, Vagrant, Packer, Docker, Zookeeper, Exhibitor, Jenkins, Bamboo

OTHERS:

Sbt, Git, Emacs, Enzyme, Jira/Confluence, Github, BitBucket

JAVA:

Spring 2, 3, 4, Spring Boot, Spring Data, QueryDSL, Spring Security, EJB2, EJB3, Apache CXF, Stripes, Spring MVC, JSP, Birt, Drools, Hibernate, Maven, Ant, Jboss 7.1, Google Guava, Atlassian Fugue, Typesafe Config, Freemarker

Experience

LEAD BACKEND SCALA DEVELOPER, DEVOPS, FUNKY PANDA GAME; LONDON, UK – 2014-2016

Designing scalable server architecture running on AWS, writing scalable game server in Scala from scratch, including administration control panel for game management, support for blue/green deployment, continuous delivery and other DevOps tasks.

Technologies: Everything Scala related in my Skills section

Achievements:

- Wrote game server for Free to play RPG game Monster Mountain <https://itunes.apple.com/app/monster-mountain/id986769931>
- Setup Redis cluster as a main data storage running in AWS.
- Used Railway Oriented Programming technique (<https://fsharpforfunandprofit.com/rop/>) to achieve high reliability and confidence about the code using Scalaz library
- Mastered Ansible to automate DevOps task, like bringing up new environments as needed by running just one script, getting up to speed new joiners by running Vagrant, Packer prepared scripts.
- Wrote blue/green deployment scripts for keeping servers up time as high as possible.
- Wrote parse/validator for google spreadsheet using Applicative functor and Shapeless to get maximum reusability and for user convenience to display all errors found.
- Wrote AngularJS application backed by Play Framework and MySQL for product manager requirements / managing user details
- Contribute to Enzyme server to improve my productivity as a programmer

JAVA/SCALA CONTRATOR, KOMIX S.R.O; PRAGUE, CZ – 2011-2014

My responsibilities as a Leading Senior Developer on a long term projects were:

- design application architecture
- choose suitable libraries and frameworks
- coordination of others programmers

Project: Central Register of Arms (CRZ) (May 2014 – July 2014)

Greenfield project written to provide highly available Authentication and Authorisation module for Central Register of Arms

Technologies: Java8, Spring Boot, AngularJS, Rest, SOAP, SoapUI, Apache CXF, Security, Thymeleaf, PostgreSQL, MyBatis, PL/pgSQL, ScalaTest, iText, Maven, Bootstrap3, Google Guava, Atlassian Fugue, Git, JBoss7, Scala, Scala Test, PostgreSQL

Achievements:

- Made a formal claim, that greenfield java project in 2014 should be based on Java8.

- Wrote glue layer for SpringMVC, MyBatis and JAXWS to transparently support new Java8 DateTime API.
- Taught other team members about functional aspects of Java8, how to use new Stream API, warned them that throwing exception all over the place means increasing cognitive load and system complexity and introduced them Optional and Either data types.
- Implemented SOAP interface (Apache CXF) for communication with Central Register of Arms and wrote unit test in Scala Test for verifying correct implementation of that interface.
- Wrote auditing layer for recording communication over SOAP interface.
- Introduced concept of JavaScript MVVM Frameworks, AngularJS in particular, to the team members and led implementation of frontend side of administration module

Project: 2013 New Green Savings Programme (June 2013 - August 2014)

Greenfield project to allow employees of State Environmental Fund of the Czech Republic to manage process of registration and processing of applications for grants from State Environmental Fund of the Czech Republic for year 2013.

Technologies: Java7, Spring, Spring Data, QueryDSL, Stripes, JSP, jQuery, Lo-Dash, Bootstrap, ScalaTest, Mockito, SOAP, Apache CXF, Birt, Maven, Git, Jboss 7.1, Google Guava, Atlassian Fugue, Typesafe Config, Freemarker, Oracle DB

Achievements:

- Wrote a javascript tool for easily management of required and available form fields for highly dynamic web forms.
- Wrote a tool that would generate PDF documents based on external configuration.
- Designed layout of whole application.
- Successfully moved project source codes from SVN version control system to Git distributed version control system in the middle of the project.
- Taught other team members philosophy of Git, like difference between merge and rebase, commit and push, fetch and pull etc.

Project: SPR (March 2013 - January 2014)

Project for The Czech Social Security Administration. Creating a centralized system for managing debts recovered and integration of the system with a centralized agenda POJ and with the accounting cost of enforcement proceedings.

Technologies: Java6, Spring, JPA, QueryDSL, Stripes, JSP, jQuery, Birt, Drools, Ant, Jboss AS, Oracle DB

Achievements:

- Implemented asynchronous SOAP interface to Record Service in Apache CXF
- Implemented new module of consolidated assets into application in JSP, Stripes, Spring, Hibernate
- Successfully moved project source codes from SVN version control system to Git distributed version control system in the middle of the project.
- Taught other team members philosophy of Git, like difference between merge and rebase, commit and push, fetch and pull etc.

JAVA DEVELOPER, KOMIX S.R.O; PRAGUE, CZ – 2008-2011

As a member of a various development teams my responsibilities were to deliver high quality code to fulfil customer requirements.

GAME DESIGNER, BOHEMIA INTERACTIVE A.S., PRAGUE CZ – 2007-2008

Game missions design for computer game Arma.

LEVEL DESIGNER, BLACK ELEMENT SOFTWARE S.R.O, PRAGUE CZ – 2001-2007

Game level design for various computer games.

Education

University of West Bohemia, Pilsen, Czech Republic - Master's Degree - 2013

Czech Technical University in Prague, Czech Republic - Bachelor's Degree - 2011

Courses

Coursera - Functional Programming Principles in Scala

Coursera - Principles of Reactive Programming

EDX - Introduction to Functional Programming