

Jiří Kremser

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CITIZENSHIP Czech Republic

OBJECTIVE A senior software engineer with background in theoretical computer science as well as in applied informatics and system desing, looking for an opportunity to realize his own skills on large projects. jkremser ♥ open source and is also a member of Mensa Czech Republic.

EDUCATION **Masaryk University**, Brno, Czech Republic

Master's degree, Faculty of Informatics

February 2011

- Merit scholarships granted repeatedly during the studies
- I led numerous theses for other students (started PhD didn't finish)
- Specialization: Information systems
- Thesis topic: *Metadata Editor on top of GWT*
Information system for editing metadata and for ingesting digitized objects into Fedora repository for Moravian Library in Brno – still being used

Erasmus programme, The University of Nottingham,

2010-01-25 – 2010-06-16

- Artificial Intelligence methods
- Quantum Computation (+Haskell)
- Designing intelligent agents

Online Courses (mostly Coursera)

Big Data Analysis with Scala and Spark	April 2017
Parallel Programming (Scala)	June 2016
Introduction to Functional Programming (Haskell)	April 2015
Social and Economic Networks: Models and Analysis	March 2014
Principles of Reactive Programming (Scala)	January 2014
An Introduction to Interactive Programming in Python	December 2013
Game Theory II	June 2013
Game Theory	March 2012
Functional Programming Principles in Scala	December 2012

Oracle

Principal Software Engineer

2019-11-01 till now

- GraalVM: I am part of the team working on GraalVM – “open source” universal virtual machine and compiler. Project is part of the Oracle Labs (R&D department) and I have been developping integrations with Kubernetes using operator pattern.

Project page: graalvm.org

Tech stack: Compilers, JVM, Kubernetes, containers, native-image, graph algorithms

Red Hat

Senior Software Engineer

2012-05-02 – 2019-10-31

- project #1: OpenDataHub under Office of CTO - I started Kubernetes operator for Apache Spark and also general JVM-based SDK for writing Kubernetes operators. My role in this team was also being a data scientist, using Jupyter and Zeppelin notebooks, presenting data and in the last stage also helping customers with integrating their data science or AI&ML tools with OpenShift.

Project page: opendatahub.io

Tech stack: Spark, Kubernetes, Jupyter, TensorFlow, AI&ML, Java, Python, Scala

- project #2: Project Hawkular - timeseries database with alerting (Full-stack dev)

Project page: hawkular.org

Tech stack: Microservices, Docker, OpenShift, Cassandra, Ruby, Java, Websockets, AngularJS, TypeScript

- project #3: RHQ - Full-stack dev on this open source project. RHQ is a monitoring and management platform taylored for JBoss ecosystem, but integrates with various other systems.

Project page: jboss.org/rhq

Tech stack: Java, Hibernate, GWT, RESTful web services, Hadoop, XML standards, JBoss, Maven

Faculty of Informatics

Java Lecturer

2011 – 2012

- Spring semester (2011 and 2012) – teaching PV168 Seminar in Java programming
- Autumn semester (2011) – teaching PB162 Java
- Sporadically I also gave talks on this university about AngularJS and Cassandra

Google

GSoC Student

May 2011 – August 2011

- An open source project under the auspices of Google Summer of Code
- My mentoring organization was DuraSpace

GSoC Mentor

May 2012 – August 2012

- I was mentoring two students working on open source project in Google Summer of Code programme
- The goal of the [project](#) was to develop a web application using the Vaadin framework that used existing tools for image metadata extraction. Results of this work were helping the National Library of the Czech Republic with digitizing historical books.

Moravian Library in Brno

Software engineer, metadata analyst, Java developer

2009 – 2012

- Customization and deployment of the system for metadata exchange by protocol OAI-PMH among Moravian Library, Europeana and Manuscriptorium.
- Development of the system for ingesting digitized objects into Fedora Commons repository (continuation of my Master's thesis).
- Project page: <http://code.google.com/p/meta-editor/>

Others

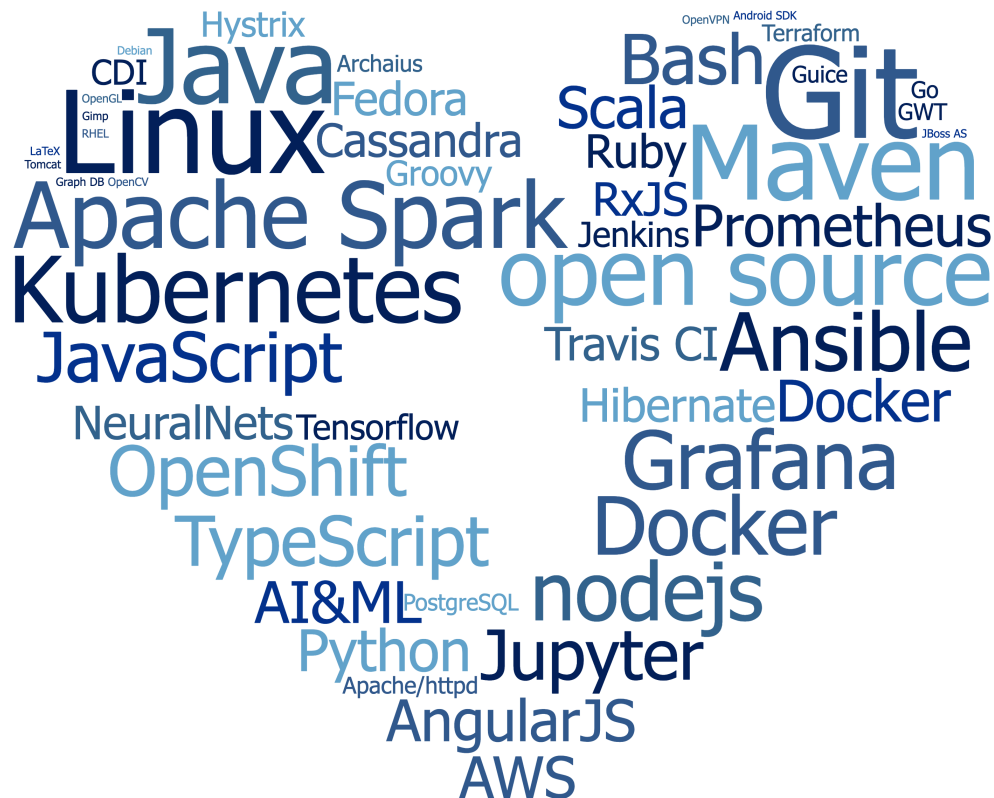
Software Development Europe

2008-01-14 – 2008-12-31

Unicorn

2007-02-01 – 2007-11-09

TECH SKILLS



EXAMPLE PROJECTS

- **abstract-operator** Java SDK that empowers developers to write their own Kubernetes operators
- **Spark Operator** Kubernetes operator for deployment Apache Spark on Kubernetes
- **dosh** DOcker SHell is a very simple CLI wrapper around docker api written in nodejs
- **Random polite Czech** Ironical website that makes fun of (stereo)typical comments in forums

CONFERENCE TALKS

- Spark Summit 2x
- FOSSDEM 1x
- OpenSlava 2x
- DevConf 3x
- various meetups: DataHeads, JS meetup, TechMeetup

..see the [website](#) for the abstracts.

ONLINE IDENTITIES

Twitter
LinkedIn
Project Euler

GitHub
StackOverflow
CoderStats

Web
Academic Profile
artzub.com viz

CERTIFICATIONS

Red Hat Certified Architect
Consisting of:

February 2017

Certified Specialist in Ansible Automation	2018
Certified Specialist in OpenShift Administration	2017
Certificate of Containerizing SW Application Development	2016
Certified Virtualization Administrator	2016
Certificate of Expertise in Application Server Management	2016
Certified Engineer	2015
Certified JBoss Administrator	2012

2020-03-03 in Brno