

# Filip Křikava

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## Employment

**09/2015 - now**

**Principal member of the technical staff at ORACLE**

Prague, Czech Republic

I am working on the backend side of Internet-of-Things / Big Data analytics cloud services<sup>1</sup>. Integrating various data sources into an uniform programming model on the top of Apache Spark.

**07/2015 - now**

**Assistant Professor at Czech Technical University**

Prague, Czech Republic

A part-time teaching position: conceptual modeling (bachelor level), object-oriented programming in smalltalk (bachelor level, in collaboration with Stéphane Ducasse), design patterns (master level). My research continues in a collaboration with Spirals team from INRIA Lille.

**11/2013 - 05/2015**

**Postdoctoral fellow at INRIA / Université de Lille 1 - Spirals team**

Lille, France

I continue working on the integration of self-adaptive behavior into distributed software systems through model-driven engineering techniques. The main focus is on adaptation of cloud infrastructures and big data analysis platform.

**11/2009 - 08/2013**

**PhD candidate at CNRS - I3S / Université Nice Sophia Antipolis - MODALIS team**

Nice, France

My main research subject was in the application of model-driven engineering, domain-specific modeling and models@run.time to systematically integrate self-adaptive mechanisms into distributed software systems. The main focus was on high-throughput computing and grid middleware.

**02/2007 - 07/2009**

**Software Engineer / Team Lead at TomTom International, BV**

Amsterdam, The Netherlands

Designed and developed a distributed Java based client/server GIS system for analyzing and visualizing GEO-referenced traffic data using Eclipse RCP and JEE stack. From January 2009, I became responsible for the entire project leading a team of 5 developers.

**07/2005 - 01/2007**

**Software Engineer at Sun Microsystems, Inc.**

Santa Clara, USA; Prague, Czech Republic

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<sup>1</sup> <https://cloud.oracle.com/iot>

Designed and developed security related tools and applications for information management based on Java. The main contribution was a distributed network scanner based on nmap that was autonomously auditing the SUN wide area network. From November 2006, I started as an integration developer working on a high-availability platform for the telecommunication industry.

**03/2005 - 06/2005    Software Engineer at Accenture Central Europe, BV**

Prague, Czech Republic

Designed and developed a Java-based tool that translated an online banking interface of Česká Spořitelna into a standalone application. The standalone version was used as a downloadable demo as well as for training the baking staff.

**09/2004 - 12/2004    Software Engineer at CAPE Technologies, Ltd.**

Dublin, Ireland

Worked on Java-based plug-ins for parsing output from various network adapters and storing the results into an Oracle database.

**01/2004 - 07/2004    Software Engineer at Accenture Central Europe, BV**

Prague, Czech Republic

Worked on a graphical user interface for online banking services for Česká Spořitelna (membre de Erste Group Bank AG) in Java/JSP.

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## Education

**2013    PhD in Computer Science, defended on 22.11.2013**

University: CNRS - I3S / Université Nice - Sophia Antipolis, France

Note: highest honor

Subject: *Domain-Specific Modeling Language for Self-Adaptive Software System Architectures*

Advisers: Philippe Collet, Johan Montagnat

**2009    Master of Science, defended 27.01.2009**

University: Czech Technical University in Prague, Czech Republic

Note: award for the best master thesis

Subject: Complex Analysis of Traffic Information

Adviser: Petr Moos

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## Qualifications and Certifications

- 3rd International Winter School in Grid Computing, March - April 2010
- Certified Eclipse RCP Developer, Eclipse Training Alliance, March 2009
- Eclipse RCP training, Eclipse Training Alliance, October 2007
- Core Spring 2, Interface 21, May 2007
- Solaris 10 Operating System Internals (SI365S10), Sun EDU, November 2006
- Sun Certified Programmer for the Java 2 Platform, SE 5.0 (CX310055), May 2006

- OO Application Analysis and Design for Java Technology with UML (OO226), Sun EDU, April 2006

## **Languages**

- Czech - native proficiency
- English - full professional proficiency
- French - professional working proficiency

## **Personal interests and skills**

- Climbing, skiing, diving (PADI AOWD), yachting (certificate of competence yachtmaster), photography, travel, literature