

Filip Křikava

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Employment

09/2016 - now

Researcher at Czech Technical University

Prague, Czech Republic

I'm working in the Prague branch of prof. Jan Vitek's programming research laboratory, focusing on static and dynamic analysis of R and Scala.

09/2016 - 03/2017

Visiting researcher at Northeastern University

Boston, MA, United States

Started at the programming language laboratory led by prof. Jan Vitek. Working primarily at static and dynamic analysis of R. Co-designed and taught a master course on data analysis in R.

09/2015 - 08/2016

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 services for the Oracle Cloud, integrating various data sources into an uniform programming model on the top of Apache Spark.

07/2015 - 08/2016

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 - 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

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 banking 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.

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 on 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

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 with UML (OO226), Sun EDU, April 2006
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Languages

- Czech - native proficiency
 - English - full professional proficiency
 - French - professional working proficiency
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Personal interests and skills

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