

PERSONAL INFORMATION

Raman Kazhamiakin

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WORK EXPERIENCE

01/01/2015 - present

Smart Community Laboratory, CTO

FBK-irst, Trento, Italy

Management of the end-to-end development process and activities of the lab (10 persons) using agile development methodologies. Definition, implementation, deployment and evolution of the open platforms for service and app provisioning, in the smart city-related domains (mobility, tourism, co-innovation, crowdsourcing, e-services for citizens). Implementation of open services, apps, and solutions based on the open platforms, in particular FIWARE, CloudFoundry, Parse, WSO2.

Full-stack development from mobile (native and hybrid) and web applications to backend and middleware systems and components. Implementation of various projects strongly focused on the integration of heterogeneous IT systems using service-oriented architecture. Development of the software systems and pilots for European projects.

Educational and training activities related to the development of cloud, mobile, and service-oriented applications. Organisation and supervision of the student internships and collaborations.

Technologies:

- Backend: J2EE, Spring, Liferay
- Integration: REST, SOAP, JMS, OSGi, Spring Integration, AMQP, ESB
- Database: SQL, NoSQL, JPA, Hibernate, Spring Data
- Mobile: Android, Cordova, Ionic
- Cloud: Docker, Kubemetes, Amazon AWS, Azure

01/01/2012 - 31/12/2014

Smart Campus Project, CTO

FBK-irst, Trento, Italy

Management of the end-to-end development process and activities of the project team (10 persons). Definition, implementatino, and deployment of the open platform for the implementation and hosting of the project-related services and applications. Integration of legacy information systems from the University and public administration and provisioning of apps and services based on those systems using the open platform.

Full-stack development from mobile to backend and middleware applications and components. Development of the software systems and pilots for European projects, applying the Service-Oriented approach for the integration of services and components provided by the project partners.

Educational and training activities related to the development of mobile and service-oriented applications.

Technologies:

- Backend: J2EE, Spring
- Integration: REST, SOAP, JMS, OSGi, Spring Integration
- Database: SQL, NoSQL, JPA, Hibernate, Spring Data
- Mobile: Android

01/01/2011 - 31/12/2011

Head of Research

SAYservice srl, Trento, Italy

Research and development of the core products and applications targeting the SOA-based integration and information alignment (business process and business activity monitoring and adaptation, user-centric services and processes). Work on FESR projects.

Technologies:

- Backend: J2EE, Spring
- Integration: REST, SOAP, JMS, OSGI, Spring Integration

01/10/2006 - 31/12/2010

Researcher

FBK-irst, Trento, Italy

Work on EU and industrial projects in the area of service-oriented architecture and applications. Work package lead and management of the project development activities.

Research on formal analysis of service-based systems, service composition methods and techniques. Implementation of the software components and prototypes related to the research activities.

01/11/2002 - 31/09/2006

Research Assistant

Department of Information Technologies University of Trento

Work on EU SENSORIA project and KLASE project. Verification and validation of WS composition, static analysis of data flows using abstraction in WS compositions, analysis of timed properties. Implementation of the software components and prototypes related to the research activities.

01/06/2002 - 31/07/2002

Stage Student

Department of Information Technologies University of Trento

Conceptual modelling, formal languages

01/10/2000 - 31/05/2002

Senior Software Developer

SaM-Solutions Ltd, Software Company, Minsk, Belarus

Design and development of distributed J2EE applications in the domains of insurance, document management, ERP and CRM solutions. Work both in a team and autonomously.

EDUCATION AND TRAINING

01/11/2002 - 31/10/2006

PhD

Int. Doctorate School, DIT, University of Trento, Italy

Formal Analysis of Web Service Compositions

01/09/1997 - 31/05/2002

Bachelor of Science in Radiophysics

Radiophysics and Electronics Faculty, System Analysis department. Belarusian State University, Minsk, Belarus

System analysis, enterprise distributed systems

PERSONAL SKILLS

Mother tongue(s)

Russian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C1
Italian	C1	C1	C1	C1	C1

ADDITIONAL INFORMATION

Book Chapters

R. Kazhamiakin, S. Benbemou, L. Baresi, P. Plebani, M. Uhlig, O. Barais. **Adaptation of Service-Based Systems. Service Research Challenges and Solutions for the Future Internet – S-Cube - Towards Engineering, Managing and Adapting Service-Based Systems (S-CUBE Book)** 2010.

A. Metzger, S. Benbemou, M. Carro, M. Driss, G. Kecskemeti, R. Kazhamiakin, K. Kritikos, A. Mocchi, E. Di Nitto, B. Wetzstein, F. Silvestri. **Analytical Quality Assurance. Service Research Challenges and Solutions for the Future Internet – S-Cube - Towards Engineering, Managing and Adapting Service-Based Systems (S-CUBE Book)** 2010. V. Andrikopoulos, A. Bucchiarone, E. Di Nitto, R. Kazhamiakin, S. Lane, V. Mazza, I.

Richardson. **Service Engineering. Service Research Challenges and Solutions for the Future Internet – S-Cube - Towards Engineering, Managing and Adapting Service-Based Systems (S-CUBE Book)** 2010.

Conference Papers

Raman Kazhamiakin, Annapaola Marconi, Alberto Martinelli, Marco Pistore, Giuseppe Valetto. **A Gamification Framework for the Long-term Engagement of Smart Citizens**. 2nd IEEE International Smart Cities Conference (ISC2), 2016.

Raman Kazhamiakin, Annapaola Marconi, Mirko Perillo, Marco Pistore, Luca Piras, Francesco Avesani, Nicola Perri, Giuseppe Valetto. **Using Gamification to Incentivize Sustainable Urban Mobility**. 1st IEEE International Smart Cities Conference (ISC), 2015.

Antonio Bucchiarone, Annapaola Marconi, Marco Pistore, Paolo Traverso, Piergiorgio Bertoli, Raman Kazhamiakin. **Domain Objects for Continuous Context-Aware Adaptation of Service-Based Systems**. ICWS 2013

P. Bertoli, R. Kazhamiakin, M. Nori, M. Pistore. **SMART: Supporting the Design and Execution of User-Centric Service-Based Applications**. WISE 2012.

A. Bucchiarone, M. Pistore, H. Raik, R. Kazhamiakin. **Adaptation of service-based business processes by context-aware replanning**. SOCA 2011.

R. Kazhamiakin, V. Kerhet, M. Paolucci, M. Pistore, M. Wagner. **Use-Based Discovery of Pervasive Services**. AIMSA 2010.

R. Kazhamiakin, M. Paolucci, M. Pistore, H. Raik. **Modelling and Automated Composition of User-Centric Services**. OTM Conferences (1) 2010.

A. Gehlert, A. Bucchiarone, R. Kazhamiakin, A. Metzger, M. Pistore, K. Pohl. **Exploiting assumption-based verification for the adaptation of service-based applications**. SAC 2010.

D. Meiländer, S. Gorchatch, C. Cappiello, V. Mazza, R. Kazhamiakin, A. Bucchiarone. **Using a**

Lifecycle Model for Developing and Executing Adaptable Interactive Distributed Applications. ServiceWave 2010

P. Bertoli, R. Kazhamiakin, M. Paolucci, M. Pistore, H. Raik, M. Wagner. **Continuous Orchestration of Web Services via Planning.** ICAPS 2009

P. Bertoli, R. Kazhamiakin, M. Paolucci, M. Pistore, H. Raik, M. Wagner. **Control Flow Requirements for Automated Service Composition.** ICWS 2009.

R. Kazhamiakin, P. Bertoli, M. Paolucci, M. Pistore, M. Wagner. **Having Services "YourWay!": Towards User-Centric Composition of Mobile Services.** FIS 2008.

L. Baresi, S. Guinea, R. Kazhamiakin, M. Pistore. **An Integrated Approach for the Run-Time Monitoring of BPEL Orchestrations.** ServiceWave 2008.

L. Baresi, S. Guinea, R. Kazhamiakin, M. Pistore. **An Integrated Approach for the Run-Time Monitoring of BPEL Orchestrations.** ServiceWave 2008.

R. Kazhamiakin, A. Metzger, M. Pistore. **Towards Correctness Assurance in Adaptive Service-Based Applications.** ServiceWave 2008.

J. Hielscher, R. Kazhamiakin, A. Metzger, M. Pistore. **A Framework for Proactive Self-adaptation of Service-Based Applications Based on Online Testing.** ServiceWave 2008

P. Bertoli, L. Ferrari, R. Kazhamiakin, C. Moiso, M. Pistore, E. Thuegaz. **Design and Verification of Web Services Compositions in the Telecommunication Domain.** In Proc. 5th International Conference on Web Services, Salt Lake City, USA, July 2007

R. Kazhamiakin, M. Pistore. **Analysis of Realizability Conditions for Web Service Choreographies.** In Proc. 26th IFIP WG 6.1 International Conference on Formal Methods for Networked and Distributed Systems, Paris, France, September 2006

R. Kazhamiakin, M. Pistore. **Static Verification of Control and Data in Web Service Compositions.** In Procs. 4th International Conference on Web Services, ICWS 2006

R. Kazhamiakin, P.K.Pandya M. Pistore. **Representation, Verification, and Computation of Timed Properties in Web Service Compositions.** In Procs. 4th International Conference on Web Services, ICWS'06, Chicago, USA, September 2006

R. Kazhamiakin and M. Pistore and L. Santuari. **Analysis of Communication Models in Web Service Compositions.** In Procs. 15th International Conference on World Wide Web, WWW'06, Edinburgh, Scotland, May 2006

R. Kazhamiakin, P.K.Pandya M. Pistore. **Timed Modelling and Analysis in Web Service Compositions.** In Procs. 1st International Conference on Availability, Reliability and Security, ARES'06, Vienna, Austria, April 2006

R. Kazhamiakin, M. Pistore, M. Roveri. **Formal Verification of Requirements using Spin: A Case Study on Web Services.** In Procs. The 2nd IEEE International Conference on Software Engineering and Formal Methods (SEFM04), September 2004

R. Kazhamiakin, M. Pistore, M. Roveri. **A Framework for Integrating Business Processes and Business Requirements.** In Procs. The 8th International IEEE Enterprise Distributed Object Computing Conference (EDOC04), September 2004

Program Committee

International Conference on Service-oriented Computing (ICSOC 2012 - 2016)

International Workshop on Principles of Engineering Service-Oriented Systems (PESOS 2009, PESOS 2011 - 2013)

International Workshop on Quality Assurance for Service-based applications (QASBA 2011)

International Workshop Series on Monitoring, Adaptation and Beyond (MONA+ 2008 - 2011)

International Workshop on Service Composition (sercomp 2006, sercomp 2007)