Daniel Moldovan

I am a computer scientist working on monitoring, analysis, and control of distributed systems from enterprise to cloud-based and IoT applications, with special interests in latest IT advancements in computing models, languages, and technologies.



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🍳 Vienna, Austria

Work Experience

01/2016 - Present

Vienna, Austria

Research Assistant Technische Universität Wien - Distributed Systems Group

U-Test - Testing Cyber-Physical Systems under Uncertainty, European H2020 research project

Task => Accomplishment

Testing elastic cyber-physical systems => Developing platform for runtime verification of elastic systems

09/2012 - 12/2015

Vienna, Austria

Research Assistant / PhD Student Technische Universität Wien - Distributed Systems Group

CELAR-Automatic, multi-grained elasticity-provisioning for the Cloud, European FP7 research project

Task => Accomplishment

Design and development of monitoring solutions for elastic systems running on top of cloud infrastructures => Realized tool for structuring and enrichment of monitoring information collected from existing monitoring solutions.

Design and development of solution for analyzing and monitoring costs of elastic systems => Realized tool for fine-grained costs monitoring and reporting, and cost efficiency analysis

05/2010-06/2012

Cluj-Napoca, Romania

Research Assistant / Master Student Technical University of Cluj-Napoca - Distributed Systems Research Lab

GAMES-Green active management of energy in IT service centres, European FP7 research project

Task => Accomplishment

Deploy virtualization middleware for creating virtualized data center test environment => Deployed and configured OpenNebula 3.0 Monitoring data center load and performance for scheduling virtual machines in energy efficient data centers => Developed custom plugins for Nagios and monitoring component on top of Nagios API

Education

09/2012-01/2016

Dr. Techn. (PhD) Technische Universität Wien, Faculty of Informatics

Adaptive Distributed Systems

10/2010 - 05/2012

Master (MSc) Technical University of Cluj-Napoca, Faculty of Informatics and Computer Science

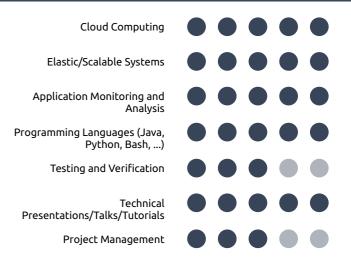
Distributed Systems and Computer Networks

10/2006 - 05/2012

Bachelor (BSc) Technical University of Cluj-Napoca, Faculty of Informatics and Computer Science

Computer Science

Skills & Competences



Representative Publications

Cost-aware scalability of applications in public clouds Daniel Moldovan, Hong-Linh Truong, Schahram Dustdar, International Conference on Cloud Engineering (IC2E), IEEE, Berlin, Germany, 2016

On Analyzing Elasticity Relationships of Cloud Services Daniel Moldovan, Georgiana Copil, Hong-Linh Truong, Schahram Dustdar, International Conference on Cloud Computing (CloudCom), IEEE, Singapore, 2014

MELA: Monitoring and Analyzing Elasticity of Cloud Services Daniel Moldovan, Georgiana Copil, Hong-Linh Truong, Schahram Dustdar, International Conference on Cloud Computing (CloudCom), Bristol, UK, 2013

Languages



Interests

Cloud Computing, IoT, Edge Computing | Distributed and Service Oriented Architectures | Application Monitoring and Analysis | New Computing Models, Middleware, and Technologies