

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 run-time 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

Cloud Computing

Elastic/Scalable Systems

Application Monitoring and Analysis

Programming Languages (Java, Python, Bash, ...)

Testing and Verification

Technical Presentations/Talks/Tutorials

Project Management

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



English



German



French



Italian

Interests

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