MARIAN LĂCĂTUȘU

CLOUD ENGINEER, APPLICATION ARCHITECT

PROFILE

Very skilled IT professional that is dedicated to learning new technologies and improving others. The area of expertise is related to Cloud and Middleware technologies alongside Application development.

Sex Male | **Date of birth** 02/04/1994
Nationality Romanian

CONTACT

PHONE:

EMAIL:

HOBBIES

IT & Technology
Travel
Astronomy
Basketball

EDUCATION

University "Politehnica" of Bucharest – Doctoral School of Automatic Control and Computers
2019 - Present
PhD Student

University "Politehnica" of Bucharest – Faculty of Automatic Control and Computers
2017 - 2019
Master of studies - Service engineering and management

University "Politehnica" of Bucharest – Faculty of Automatic Control and Computers
2013 - 2017
Bachelor's Degree - Licensed in Systems Engineering

"Mihai Viteazul" National College, Bucharest
2009 - 2013
Baccalaureate Degree – Mathematics and Informatics

WORK EXPERIENCE

IBM Romania – Cloud Engineer, Application Architect
2020 - present
Working for one of the European Union agencies on the world's largest on-premises OpenShift deployment. As the principal OpenShift expert and member of the architectural board, my role is to provide the best solutions to the client and to leverage my Cloud and DevOps skills to coordinate the development teams to achieve optimal results. Also, I am a member of a team of inventors that develop disclosures for IBM. Some of the disclosures are in the process of obtaining a patent.

IBM Romania - Cloud Engineer, Application Developer
2017 - 2020
Member of the Build and Deploy team and former Competency Leader for IBM MQ, IBM Integration Bus and WebSphere Extreme Scale technologies. Currently, my daily duties are related to developing Cloud environments with technologies such as Kubernetes, Docker, Terraform, Helm and OpenShift. I am also developing Web applications for commercial and IBM clients.

Computas IT Romania – Junior Developer
Summer 2016 - Internship
Developing mobile applications written in Java for a commercial client.

Computas IT Romania – Junior Developer
Summer 2015 - Internship
Developing an Android application.

LANGUAGE SKILLS

Native Language - Romanian

Other Languages - English

Understanding	Speaking	Writing
C1	C1	C1

TECHNICAL SKILLS

Cloud platforms - IBM Cloud, Microsoft Azure (Microsoft Certified: Azure Administrator Associate), AWS
Private Cloud Platforms - IBM Cloud Orchestrator (development), IBM Cloud Private
Cloud technologies - Docker, Kubernetes, Red Hat OpenShift, Helm, Terraform
Programing Languages - C/C++, C#, Java, JavaScript/TypeScript, Python, Bash scripting, Matlab
Server-side scripting - NodeJS, PHP
Web frameworks – Angular, React
Automation - Ansible
Middleware technologies (administration) - IBM MQ, IBM Integration Bus, WebSphere eXtreme Scale (former Competency Leader for IBM MQ, IIB and WXS between 2018 and 2019), WebSphere Application Server
Operating systems (administration) - Linux, IBM AIX, Windows Server
Databases - IBM DB2 (administration), MySQL, Mongo DB
Web technologies - HTML, CSS
Web UI technologies - Bootstrap, MDBoostrap, Angular Material
Mobile frameworks - Android Studio, NativeScript
Business Process management - IBM Business Process Manager (development)
Classic Cloud Infrastructure - VMWare, OpenStack
Modeling languages - UML, SoaML
Modeling tools - Generic Modeling Environment, Microsoft Visio, Modelio
Artificial intelligence - TensorFlow, IBM Cloud Watson AI
Logging and Monitoring tools - ELK stack (Kubernetes implementation), LogDNA, NewRelic, Dynatrace, AppDynamics, Prometheus
Game Development tools - Unity 3D, Unreal Engine 4

CERTIFICATIONS AND BADGES

IBM Badges - https://www.youracclaim.com/users/marian-lacatusu/badges

IBM certifications

Technical Specialist Profession Certification - Experienced

The Open Group certifications

Professional Certification: Certified Technical Specialist, Application Development

Microsoft certifications

Microsoft Certified: Azure Administrator Associate

CISCO Certifications

Cisco IT Essentials: PC Hardware and Software
Cisco IT Essentials: PC Hardware and Software advanced

ARTICLES

Marian Lacatusu, Anca Daniela Ionita, Florin Lacatusu, Ioan Damian, Decision support for multicloud deployment of a modeling environment, ***2022*** *IEEE 18th International Conference on Intelligent Computer Communication and Processing*, September 22-24, ICCP 2022, Cluj-Napoca, Romania, ISBN: 978-1-6654-6436-9, IEEE Catalog Number: CFP2209D-USB

Florin Lacatusu, Anca Daniela Ionita, **Marian Lacatusu**, Ioan Damian, Daniela Saru, A comparison of cloud edge monitoring solutions for a university building, ***2022*** *IEEE 18th International Conference on Intelligent Computer Communication and Processing*, September 22-24, ICCP 2022, Cluj-Napoca, Romania, ISBN: 978-1-6654-6436-9, IEEE Catalog Number: CFP2209D-USB

Ioan Damian, **Marian Lacatusu**, Florin Lacatusu, Anca Daniela Ionita, Web Services for Guiding Persons with Locomotor Impairments in Public Spaces, *2022 26th International Conference on System Theory, Control and Computing* (ICSTCC), ***2022***, pp.639-644, IEEE, INSPEC, doi:10.1109/ICSTCC55426.2022.9931861, WOS:000889980600107

Lăcătuşu, Marian; Ionita, A.D.; Anton, F.D.; Lăcătuşu, Florin Analysis of Complexity and Performance for Automated Deployment of a Software Environment into the Cloud. *Appl. Sci.* ***2022***, *12*, 4183. https://doi.org/10.3390/app12094183, *Impact factor:* 2.84 - Q2, WOS:000794735600001

Lăcătuşu, Florin; Ionita, A.D.; **Lăcătuşu, Marian**; Olteanu, A. Performance Evaluation of Information Gathering from Edge Devices in a Complex of Smart Buildings. *Sensors* ***2022***, *22*, 1002. https://doi.org/10.3390/s22031002, *Impac factor:* 3.84 – Q2, WOS:000760176500001

Marian Lacatusu, Florin Lacatusu, Ioan Damian, Anca Daniela Ionita, Multicloud Deployment to Support Remote Learning, *15th International Technology, Education and Development Conference* (INTED 2021) Proceedings (***2021***), pp. 4601-4606, IATED Digital Library, doi: 10.21125/inted.2021.0936

Ioan Damian, **Marian Lacatusu**, Anca Daniela Ionita, Florin Lacatusu, Software Services to Support Faculty Management in Times of Pandemic, *15th International Technology, Education and Development Conference* (INTED 2021) Proceedings (***2021***), pp. 4634-4639, IATED Digital Library, doi: 10.21125/inted.2021.0943

Florin Lacatusu, I. Damian, A. D. Ionita and **Marian Lacatusu**, Smart Building Software Manager in Cloud, *University Politehnica of Bucharest Scientific Bulletin*, *Series C, vol. 83, no. 4,* ***2021.***, *Impact factor:* 0.37, WOS:000741473700003

Marian Lacatusu and A. D. Ionita, "Metamodeling environment in Cloud," *University Politehnica of Bucharest Scientific Bulletin*, *Series C, vol. 82, no. 3,* ***2020***, *Journal:* U.P.B. Sci. Bull Series C, *Impact factor:* 0.37, WOS:000557847800003

Olteanu, Adriana; **Lacatusu, Marian**; Ionita, Anca Daniela; Lacatusu, Florin, "Platform for Informal Education and Social Networking to Increase Awareness Regarding Nuclear Vulnerabilities" - The International Scientific Conference eLearning and Software for Education; Bucharest Vol. 2, Bucharest: "Carol I" National Defence University. (***2018***): 333-340. WOS:000467466800045

Adriana Olteanu, Florin Lacatusu, **Marian Lacatusu**, Iulian Craciun, Anca Daniela Ionita, "Mobile Application for Crisis Situations in a University Campus" - The International Scientific Conference eLearning and Software for Education; Bucharest Vol. 2, Bucharest: "Carol I" National Defence University. (**2018**): 280-287. WOS:000467466800038

CONFERENCES/PRESENTATIONS

IBM Tech 2023 - IBM technical recognition conference, Dubai, 2023

18th International Conference on Intelligent Computer Communication and Processing (ICCP), 2022

26th International Conference on System Theory, Control and Computing (ICSTCC), 2022

15th International Technology, Education and Development Conference (INTED), 2021

Scientific communication session University "Politehnica" of Bucharest, May 2019

The 14th International Scientific Conference eLearning and Software for Education Bucharest, April 19-20, 2018

Scientific communication session University "Politehnica" of Bucharest, April 2017

Scientific communication session University "Politehnica" of Bucharest, April 2014

Junior Achievement - international competition "company of the year 2011" - national Final, May 2011

PROJECTS/INITIATIVES

2021-present - Patent mining initiative: developing disclosures in the area of Cloud and DevOps

2020 & **2021** - IBM Internship program coordinator: large-scale hire initiative and mentoring for undergraduate and newly-graduated university students

2019 - Dissertation Project: "A Model Driven Approach of Sensor Networks, with Metamodels Realized in Desktop, Web and Cloud-Based Variants of a Generic Environment"

2019 - Cloud Innovation Jam - Moderator (IBM internal event)

2018 - Learn and Share AI/IOT Project (IBM Romania Initiative) – Team Leader Green team; Leading an internal team (4 members) that had the objective of creating a working chatbot using TensorFlow and a different implementation using IBM Watson AI. The robot is moving using a wheel-based platform developed with Arduino Nano.

2017 - License Project: "Portal for public awareness on the prevention and response for nuclear emergency situations, by identifying and modelling the procedures recommended by the authorities"

2015 - Modelling/prediction by time series of earthquakes in Vrancea area - University "Politehnica" of Bucharest

2013 - "The City" (graphic application)- Project for Informatics Certification - "Mihai Viteazul" National College, Bucharest

OTHER SKILLS

Basketball Champion - "Cupa Anilor 1, editia 2014", University "Politehnica" of Bucharest

Basketball - Dinamo Bucharest, junior category (2007-2011)

Driving license - B, April 2012