FLORIN LĂCĂTUȘU

CLOUD ENGINEER, APPLICATION ARCHITECT

PROFILE

I am interested in all things related to Cloud technologies, Application development, Middleware and the latest trends in the IT industry. In all my daily work I am also focused on improving the workflow of the team that I am part of in order to accomplish outstanding results.

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

CONTACT

PHONE:

EMAIL:

HOBBIES

IT & Technology
Basketball
Travel
Science

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 largest banks in the European Union on an award-winning Machine Learning and collaboration platform. As the main DevOps, Infrastructure, and Backend expert I worked in implementing and managing the application Cloud Infrastructure, DevOps along with developing of the Node.js backend and being involved in IT Architecture topics. Besides this, I am also part of a team of inventors to create patent disclosures for IBM. Multiple disclosures are currently in the process of obtaining a patent in the United States of America.

IBM Romania - Cloud Engineer, Application Developer/Cloud Technologies SME
2017 - 2020
Member of the Build & Deploy team and Subject Matter Expert in Cloud technologies. My daily duties consist of developing Cloud environments for the clients using Docker, Kubernetes, Helm, Terraform, OpenShift. I also develop Web applications and automation scripts for Commercial and IBM clients. Other duties are represented by training junior employees, client meetings and participating on IBM activities as a speaker/presenter.

Computas IT Romania - Junior Developer
Summer 2016 - Internship
My role on this job was to develop an Android Application for a commercial client.

Computas IT Romania - Junior Developer
Summer 2015 - Internship
Developing an internal 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, Helm, Terraform, Red Hat OpenShift
Programming Languages - C/C++, C#, Java, JavaScript/TypeScript, Python, Bash scripting, PowerShell, Matlab
Server-side scripting - NodeJS, PHP
Web frameworks – Angular, React
Automation - Ansible
Middleware technologies (administration) - IBM MQ, IBM Integration Bus, WebSphere eXtreme Scale, WebSphere Application Server
Operating systems (administration) - Linux, IBM AIX, Windows Server
Databases - IBM DB2(administration), MySQL, MongoDB
Web technologies - HTML, CSS
Web UI technologies - Bootstrap, MDBootstrap, Angular Material
Mobile frameworks - Android Studio development, NativeScript
Business Process Management – IBM Business Process Manager (development)
Classic Cloud infrastructure - VMWare, OpenStack
Modeling languages - UML, SoaML
Modeling tools - Microsoft Visio, Generic Modelling Environment, Modelio
Artificial intelligence - TensorFlow, IBM Cloud Watson AI
Logging and Monitoring Tools - ELK stack (Kubernetes implementation), LogDNA, AppDynamics, NewRelic, Dynatrace, Prometheus
Game development tools - Unity3D, Unreal Engine 4

CERTIFICATIONS AND BADGES

IBM Badges - https://www.youracclaim.com/users/florin-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

Florin Lacatusu, Anca Daniela Ionita, Marian Lacatusu, Ioan Damian and 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

Marian Lacatusu, Anca Daniela Ionita, **Florin Lacatusu** and 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

Ioan Damian, Marian Lacatusu, **Florin Lacatusu** and A. D. 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, doi: 10.1109/ICSTCC55426.2022.9931861, WOS:000889980600107

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 , *Impact factor:* 3.84 – Q2, WOS:000760176500001

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

Florin Lacatusu, I. Damian, A. D. Ionita and Marian Lacatusu, "Smart Building Software Manager in Cloud," U.P.B. Sci. Bull., *Series C, vol. 83, no. 4,* **2021**, *Impact factor:* 0.37, WOS:000741473700003

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

Lăcătuşu, Florin; Ionita, A.D. Architecture for Monitoring Risk Situations in a University Environment. Rev. Roum. Sci. Tech. Electrotech. **2020**, 65, 259–263, Impact factor: 0.44, WOS:000608261900017

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

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

CONFERENCES/PRESENTATIONS

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 communications session University "Politehnica" of Bucharest, May 2019

IBM CIC Romania DevOps Bootcamp, October 2018

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

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

Scientific communications 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: "Cloud-based building monitoring for hazard detection"

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

2018 - Learn and share AI/IOT project (IBM Romania initiative) – Team Leader Blue 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. Robot is moving using a wheel-based platform developed with Arduino Nano.

2017 - License Project: "Formal Specification of a set of processes for emergency situations of a university campus, with the development of a portal for identification, monitoring and support"

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

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

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