

Matei-Marius Micu, Senior Software/Infrastructure Engineer

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LINKS

[GitHub](#), [LinkedIn](#), [Personal Website](#), [Workshops & Slides](#), [Certifications](#)

EMPLOYMENT HISTORY

Apr 2022	Senior Software/Infrastructure Engineer , Prisma	Remote
	<ul style="list-style-type: none">• Focus on evolving the Prisma Data Platform• Improved monitoring of the infrastructure (mostly based on AWS but with some components on GCP and Azure). Cut down the unnecessary metrics from 150k to a max of 30k. Also created a managed sink for the "nice to have but not critical" metrics• Create an MVP report to help Support and Product view the current platform usage using BigQuery.• Work on feature parity with the open-source offering. Initially focusing on Interactive Transactions	
Oct 2020 — Mar 2022	Site Reliability Engineer at HotJar, Oct 2020 - Mar 2022, Hotjar	Remote
	<ul style="list-style-type: none">• Migrate the ingestion pipelines from EC2 to Kubernetes. This is the most sensitive part of the infrastructure handling the biggest part of the data ingestion (~800k WebSocket connections active at peak). This migration involved infrastructure and product changes (client-side and server-side both written in Python) and took 6 months.• Enhance the disaster recovery procedures, backups, and security of our AWS infrastructure.• Introduce a new incident process, act as an Incident Commander and T1 responder	
Jun 2018 — Oct 2020	Site Reliability Engineer, Mambu	Iasi
	<ul style="list-style-type: none">• Convert a manual procedure for disaster recovery to a fully automated and tested process that can restart operation in another AWS region in under 2h for more than 50+ environments. This project took 9 months and involved coordinating 3 engineers and expectations of 5+ teams• Create the new infrastructure platform based on Kubernetes, Terraform and AWS, and CloudNative projects. It allowed for the rapid development of 15+ microservices alongside an existing monolith• Designed & implemented the release procedure for microservices using GitLab, Helm Charts, and ArgoCD following the GitOps approach. Empowered 200+ developers to safely deploy changes across 50+ environments• Automating infrastructure requirements through Terraform, Terragrunt and GoLang. The AWS infrastructure bill was around 1 million dollars per month which we needed to get better visibility in.• Adopt and productize the internal streaming platform based on Kafka and Nakadi. This was used to expand the monolith and support the creation of at least 15 microservices during my tenure• Organize internal workshops or dedicated guidance (1-4 weeks) preparing development teams to create their first series of production microservices. I focused on: Docker, Kubernetes, Microservice architecture patterns, and How to safely break up a monolith.	
Sep 2017 — Jun 2018	DevOps, Mambu	Iasi
	<ul style="list-style-type: none">• Automate Operation tasks like provisioning, pipelines for Terraform, general CI/CD, container-based infrastructures, and lambdas/serverless-based projects.<ul style="list-style-type: none">• Enhanced billing tracking for an average bill of 1 million dollars per month• Collaborate with support, Ops, and development teams to address cross-cutting concerns (compliance tools, cloning/obfuscating, etc...)<ul style="list-style-type: none">• Build an internal platform that helped developers get compliant access to production databases (over 50)• Audit and improve existing tooling. Offer Python reviews/guidance for multiple parts of the organization. Organize numerous workshops about advanced Python topics, language features, and frameworks (SQLAlchemy, calling C and Java code from Python, Flask, Django, tox, PyTest, Conu)	
Mar 2016 — Aug 2017	Cloud Engineer, Cloudbase	Iasi
	Develop and maintain the following Open-Source projects that were part of the OpenStack ecosystem	

Argus-Ci is a framework for writing complex integration tests, for code that needs to run under various different operating systems.

- I increased support **from 1 Windows version to 6** (including Windows Nano).
- Parallelize the running of tests (for running all the tests for all supported Windows versions the time was reduced from ~60 hours to 20-30 minutes)

Arestor is an HTTP framework used to substitute and control cloud providers' metadata. It is used in integration with the Cloudbase-init-ci framework, to test Cloudbase-init in a fully controlled environment with various HTTP metadata sources like **AWS, OpenStack, DigitalOcean, or Packer**.

CloudBase-Init is the Windows equivalent of the Cloud-Init project used on most **OpenStack** Linux images.

I also maintained the Jenkins pipelines and OpenStack cluster for these projects and contributed to other OpenStack projects.

EDUCATION

2018 — 2021	Master's degree (BSc) Advance topics of Computer Science, Faculty of Computer Science	Iasi
	This is a custom program that allows me to pick every course and with the help of my supervisor, I tailored the courses to focus mainly on distributed computing	
2015 — 2018	Bachelor of Science (BSc) Computer Science, Faculty of Computer Science	Iasi

EXTRA-CURRICULAR ACTIVITIES

Feb 2022	Collaborator Teacher Assistant, Faculty of Computer Science	Iasi
	<ul style="list-style-type: none">• Teaching two groups of roughly 50 students Web Technologies.• This course was focused on core knowledge about front-end and backend including current trends in the industry (microservices, GraphQL, etc)	
Feb 2019 — Jun 2019	Collaborator Teacher Assistant, Faculty of Computer Science	Iasi
	<ul style="list-style-type: none">• Teaching two groups of roughly 50 students Open Source Working Methodologies.• This course was focused on Linux skills and introduced them to open source development and container-based infrastructure and concepts.	
Aug 2018 — Jul 2020	Technical Trainer, Wantsome	Iasi/Remote
	<ul style="list-style-type: none">• Python Trainer - https://wantsome.ro/curs-programare-python-iasi<ul style="list-style-type: none">• Design and Teach a 16 weeks Python training program (2 hours of theory and 4 hours of practice every week) - The first group had 17 people• Offer assistance for 8 weeks (3h / week) for final projects. This involves explaining multiple frameworks/libraries or concepts that are not part of the base python course but are more related to each student interests• DevOps/System Reliability Engineer Trainer - https://wantsome.ro/curs-system-engineering-devops<ul style="list-style-type: none">• Assist in designing and teaching a 16 weeks Training Program that focuses on Linux, CI/CD, Containers, and Networking (2 hours of theory and 4 hours of practice every week) - The first group had 11 people	

COURSES

Aug 2022 — Aug 2025	CKA: Certified Kubernetes Administrator, The Linux Foundation
Aug 2022 — Aug 2025	KCNA: Kubernetes and Cloud Native Associate, The Linux Foundation