

# Matei-Marius Micu, Senior Software/Infrastructure Engineer

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## LINKS

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

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## EMPLOYMENT HISTORY

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

Arester 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.

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## EDUCATION

2018 — 2021	<b>Master's degree (BSc) Advance topics of Computer Science, Faculty of Computer Science</b>	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	<b>Bachelor of Science (BSc) Computer Science, Faculty of Computer Science</b>	Iasi

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## EXTRA-CURRICULAR ACTIVITIES

Feb 2022	<b>Collaborator Teacher Assistant, Faculty of Computer Science</b>	Iasi
	<ul style="list-style-type: none"><li>• I am teaching two groups of second-year students, roughly 50 students, Web Technologies.</li><li>• The course focuses on core knowledge about front-end and backend, including current trends in the industry (microservices, GraphQL, architectural patterns, etc.)</li></ul>	
Feb 2019 — Jun 2019	<b>Collaborator Teacher Assistant, Faculty of Computer Science</b>	Iasi
	<ul style="list-style-type: none"><li>• I was teaching two groups of third-year students, roughly 50 students, Open Source Working Methodologies.</li><li>• This course was focused on Linux skills and introduced them to open source development and container-based infrastructure and concepts.</li></ul>	
Aug 2018 — Jul 2020	<b>Technical Trainer, Wantsome</b>	Iasi/Remote
	<ul style="list-style-type: none"><li>• Python Trainer - <a href="https://wantsome.ro/curs-programare-python-iasi">https://wantsome.ro/curs-programare-python-iasi</a><ul style="list-style-type: none"><li>• 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</li><li>• 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</li></ul></li><li>• DevOps/System Reliability Engineer Trainer - <a href="https://wantsome.ro/curs-system-engineering-devops">https://wantsome.ro/curs-system-engineering-devops</a><ul style="list-style-type: none"><li>• 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</li></ul></li></ul>	

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## COURSES

Aug 2022 — Aug 2025	<b>CKA: Certified Kubernetes Administrator, The Linux Foundation</b>
Aug 2022 — Aug 2025	

KCNA: Kubernetes and Cloud Native Associate, The Linux Foundation