

# MATTEO CRISTIANO

## Platform \ Cloud \ DevSecOps Architect



### PERSONAL DATA

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GitHub profile: <https://github.com/create-the-roaring-impossible>

GitLab profile: <https://gitlab.com/create-the-roaring-impossible>

Azure DevOps profile: <https://dev.azure.com/fierli92>

Twitter profile: <https://twitter.com/slb6113>

Driving license: B, A3

Nationality: Italian

Place and date of birth: Ferrara (Fe), September 10<sup>th</sup> 1992

### EDUCATION

2023 HashiCorp Cloud Engineer Certifications: **Terraform Associate 003**, released by *HashiCorp*

2022 Certificate of Completion of the **Google IT Support Professional Certificate**, released by *Coursera*

2022 Certificate of Completion of the **IT Security: Defense against the digital darks**, released by *Coursera*

2022 Certificate of Completion of the **Introduction to Docker**, released by *Coursera*

2022 Certificate of Completion of the **Kubernetes: Basic Architecture and First Deployment**, released by *Coursera*

2022 Certificate of Completion of the **Terraform for absolute beginners**, released by *Coursera*

2022 Certificate of Completion of the **Introduction to Ansible: The Fundamentals**, released by *Coursera*

2022 Certificate of Completion of the **System Administration and IT Infrastructure Services**, released by *Coursera*

2022 Certificate of Completion of the **Operating Systems and You: Becoming a Power User**, released by *Coursera*

2022 Certificate of Completion of the **The Bits and Bytes of Computer Networking**, released by *Coursera*

2022 Certificate of Completion of the **Technical Support Fundamentals**, released by *Coursera*

2022 Certificate of Completion of the **Introduction to TCP/IP**, released by *Coursera*

2022 Certificate of Completion of the **Architecting on AWS**, released by *Amazon Web Services (AWS)*

2020 Certificate of Completion of the **AWS Advanced Networking Specialty (LA)** course, released by *Linux Academy*

2020 Certificate of Completion of the **Ansible Quick Start** course, released by *Linux Academy*

2020 Certificate of Completion of the **Architecting on AWS** course, released by *Amazon Web Services (AWS)*

2020 Certificate of Completion of the **How to Get a Linux Job** course, released by *Linux Academy*

2020 Certificate of Completion of the **Introduction to Ansible (LA)** course, released by *Linux Academy*

2020 Certificate of Completion of the **Certificate of Attendance - AWS Innovative Online Conference - AI\ML Edition** course, released by *Amazon Web Services (AWS)*

2020 Certificate of Completion of the **AWS Certified Machine Learning - Speciality** course, released by *Linux Academy*

2020 Certificate of Completion of the **Certificate of Completion - Top 5 Machine Learning Libraries in Python** course, released by *Udemy*

2019 Certificate of Completion of the **Certificate of Completion - Introduction to Python Programming** course, released by *Udemy*

2019 Certificate of Completion of the **Leading like a Futurist** course, released by *LinkedIn*

2019 Certificate of Completion of the **AWS Certified Solutions Architect - Associate Level** course, released by *Linux Academy*

2019 Certificate of Completion of the **Certificate of Attendance - AWS Innovative Online Conference - Machine Learning and AI Edition** course, released by *Amazon Web Services (AWS)*

2019 Certificate of Completion of the **Learn AWS by Doing** course, released by *Linux Academy*

2019 Certificate of Completion of the **AWS Concepts** course, released by *Linux Academy*

2019 Certificate of Completion of the **AWS Essentials** course, released by *Linux Academy*

2019 Certificate of Completion of the **AWS Security Essentials** course, released by *Linux Academy*

2019 Certificate of Completion of the **Linux Operating System Fundamentals** course, released by *Linux Academy*

2015-2018 **Master's degree** in **Astronomy and Astrophysics**, from "*La Sapienza*" University of Rome, with vote **109\110**, with thesis "***Violent relaxation of self gravitating systems***" (supervisor: Prof. Roberto Capuzzo Dolcetta) and the following exams:

- Theoretical Astrophysics [eng] (6 U.C.): 30\30
- Astrophysical Processes and Plasmas (6 U.C.): 25\30
- Stellar Systems Dynamics (6 U.C.): 30 e lode\30
- General Relativity (6 U.C.): 30\30
- Intensive Computing [eng] (6 U.C.): 30\30
- Physical Cosmology [eng] (6 U.C.): 30 e lode\30
- Astrophysics Laboratory (12 U.C.): 30\30
- Advanced Computing Laboratory (6 U.C.): 30\30
- Self-gravitating Systems (6 U.C.): 30 e lode\30
- Stellar Astrophysics (6 U.C.): 27\30
- University Tuition (3 U.C.): eligible
- Extragalactic Astrophysics (6 U.C.): 26\30
- Superior Physics (6 U.C.): 24\30

Weighted Average: 28.62\30

Arithmetic Average: 28.50\30

2018 Certificate of Completion of the **Learning Python** course, released by *LinkedIn*

2017 Certificate of attendance to **Parallel I/O and management of large scientific data** course, organized during *Cineca HPC Events*, at the *Cineca* offices in Rome

2017 Certificate of attendance to **Introduction to Parallel Computing with MPI and Open MP** course, organized during *Cineca HPC Events*, at the *Cineca* offices in Rome

2017 Certificate of attendance to **Debugging and Optimization of Scientific Applications** course, organized during *Cineca HPC Events*, at the *Cineca* offices in Rome

2017 Certificate of attendance to **Introduction to Marconi KNL Cluster, for users and developers** workshop, organized during *Cineca HPC Events*, at the *CNR* offices in Rome

2011-2015 **Bachelor's degree** in **Physics and Astrophysics**, from "*La Sapienza*" University of Rome, with vote **106\110**, with thesis "***Regolarizzazione del Problema Gravitazionale Classico dei due e tre Corpi***" (supervisor: Prof. Roberto Capuzzo Dolcetta) and the following exams:

- Calculus Laboratory (6 U.C.): 27\30
- Geometry (9 U.C.): 21\30
- Calculus I (9 U.C.): 29\30
- Mechanics Laboratory (12 U.C.): 30 e lode\30
- Mechanics (12 U.C.): 28\30
- Thermodynamics and Laboratory (9 U.C.): 23\30
- Electromagnetism and Circuits Laboratory (6 U.C.): 26\30
- Calculus II (9 U.C.): 28\30
- Celestial Mechanics (6 U.C.): 29\30
- Astronomy (9 U.C.): 30 e lode\30
- Chemistry (6 U.C.): 29\30
- Astrophysics (9 U.C.): 28\30
- Numerical Methods for Astronomy (6 U.C.): 28\30
- English Language (2 U.C.): eligible
- Optics and Laboratory (9 U.C.): 26\30
- English Language (3 U.C.): eligible
- Mathematical Methods for Physics (6 U.C.): 25\30
- Electromagnetism (12 U.C.): 29\30
- Statistical Mechanics (6 U.C.): 26\30
- Nuclear and Subnuclear Physics I (6 U.C.): 21\30
- Quantum Mechanics (9 U.C.): 20\30
- Astrophysics Laboratory (12 U.C.): 30 e lode\30
- Matter Structure (6 U.C.): 25\30

Weighted Average: 26.81\30

Arithmetic Average: 26.57\30

2006-2011 **Scientific Graduation** (P.N.I. course), at the Scientific Public High School "A. Roiti" in Ferrara (Fe), with vote **92\100**

2011 Certificate of attendance to **Excellence course for High Schools**, at the "Department of Physics" at the "University of Ferrara" (Fe) and winner of the scholarship related to a visit to the **CERN**

2011 Certificate of attendance to **Astrophysics Laboratory**, at the "Department of Physics" at the "University of Ferrara" (Fe), organized during the **Progetto Lauree Scientifiche**

2011 **ECDL Core** certificate (**Full** certificate)

2010 Certificate of attendance to **Chemistry summer stage**, at the "Department of Physics" at the "University of Ferrara" (Fe), organized during the **Progetto Lauree Scientifiche**

2010 Certificate of attendance to **Chemistry Laboratory experimental course**, at the "Department of Chemistry" at the "University of Ferrara" (Fe), organized during the **Progetto Lauree Scientifiche**, with the acquisition of 1 U.C. (F type) with vote 30\30

2009 Certificate of attendance to **Summer-study-holidays** at the **Magister Academy** in Malta, with certificate of attendance to the **Upper Intermediate (CEF B2 level)** level English language course

2008 Certificate of attendance to **Summer-study-holidays** at the **Bradfield College**, with certificate of attendance to the **Intermediate (CEF B1 level)** level English language course

2007 Certificate of passing the **Trinity College 4° degree exam (CEF A2.2 level and NQF Entry Level)**

2007 Certificate of attendance to **Summer-study-holidays** at the **Strathallan School**, with certificate of attendance to the **Intermediate (CEF B1 level)** level English language course

## COMPUTER SKILLS

Linux O.S., Windows O.S., Python, Pascal, C\C++, Java, Javascript, Fortran, MPI, OpenMP, HDF, CUDA, HTML, JSP, CSS, Gnuplot, Bash Shell Scripting, SQL, MySQL, Angular, AngularJS, LaTeX, Matlab, Scilab, Origin, VSCode, Office, Internet Explorer, Microsoft Edge, Outlook Express, Mozilla, Firefox, Google Chrome, OpenOffice, LibreOffice, AWS, SonarQube, Anaconda, Jupyter Notebook, Pandas, Numpy, Matplotlib, Scikit, Laravel, Yii, PHP, Git, WordPress, Packer, Ansible, CodePipeline, CodeBuild, RDS, Aurora, API Gateway, Jenkins, Cloud, Terraform, Azure DevOps, Powershell Scripting, Octopus, MS SQL, GSuite, Office 365, Docker, Docker Compose, Kubernetes, ArgoCD, EKS, RedGate, Network, Security, Landing Zone, Documentation, Confluence, Azure, Cloud, AKS, Rancher, Hashicorp Vault, AWX, Container App, App Service, Serverless, GitHub, GitLab

## LANGUAGE SKILLS

Italian: native language (C2)

English: professional (B2), both written and spoken

French: elementary (A1), both written and spoken

## WORK EXPERIENCES

January 2025 - present

Cloud Infrastructure & DevOps Engineer Specialist at **Consulcesi Group**, Rome:

I'm working as Cloud & DevSecOps Architect, for the Consulcesi Infrastructure team: in my role, I manage the VMs, services and processes built on Azure cloud (using Terraform), from network\security topics to CI\CD pipelines (mainly using Azure DevOps). I design, create and manage architectures with different systems\services (Azure DevOps, K8s, DataBricks, ContainerApp, AppService, Azure Cache for Redis, Service Bus, Event Hub, etc..) and AKS cluster (with focus on Helm, ArgoCD and KEDA).

- CI\CD
- IaC
- Azure DevOps
- GitHub
- Terraform
- Network\Security (VNet, NSGs, Route Tables, Peering, VPN S2S, ..)
- Azure
- Ubuntu, RedHat, Windows
- Bash\Powershell scripting
- Docker
- Kubernetes, AKS
- Helm
- ArgoCD
- KEDA
- SonarQube
- Container App, App Service, Azure Function, Container Instance, Azure Cache for Redis, Service Bus, Event Hub, Data Factory, CosmosDB, etc..
- DataBricks
- Microsoft Entra ID
- Application Gateway
- WAF
- Microsoft 365

June 2023 - January 2025

Cloud Architecture & Operations Expert at Lottomatica, Rome:

I'm working as Cloud Architect, for the Lottomatica Cloud team: in my role, I manage the servers and processes built on Azure cloud (using Terraform), from network\security topics to management of release pipelines (in particular, with the use of Azure DevOps), up to the creation\management of CI\CD processes. I manage creation and integration between different systems (Azure DevOps, Kubernetes, Graphana, DataBricks, ..) and Kubernetes cluster (on-prem and AKS). I'm also involved in the creation of infrastructure and CI\CD processes of a Data Platform project, managing the MLOps workflow.

- CI\CD
- Azure DevOps
- Terraform
- Network\Security (VNet, NSGs, Route Tables, Peering, VPN S2S, ..)
- Azure
- Ubuntu, Windows
- Git
- Bash\Python\Powershell scripting
- Docker\Docker Compose
- Kubernetes, AKS
- Helm
- DataBricks
- Data Factory
- Storage Account
- Application Gateway
- WAF
- Confluence
- Jira

April 2022 - June 2023

International Platform Operations Expert at Lottomatica, Rome:

I'm working as Cloud Engineer, for the Lottomatica Cloud team, in an international project: in my role, I manage the servers and processes built on AWS cloud (using Terraform), from network\security topics to management of release pipelines (in particular, with the use of Azure DevOps), up to the creation\management of CI\CD processes.

I manage creation and integration between different systems (Azure DevOps, ArgoCD, Kubernetes, Graphana, SonarQube, ..), servers life cycle (via Ansible processes) and Kubernetes cluster (on-prem and EKS). About AWS, I had the possibility to work with Local Zones and Outposts.

- Ansible
- CloudWatch\Events\Dashboard
- CI\CD
- Azure DevOps
- Terraform
- SonarQube
- Network\Security (VPC, NACLs, SGs, Route Tables, Transit Gateway, VPN, ..)
- AWS
- CentOS, Ubuntu, Windows, RedHat
- Git
- Bash\Python\Powershell scripting
- Docker\Docker Compose
- Kubernetes, EKS
- ArgoCD
- Confluence

April 2020 - April 2022

System Administrator & Cloud Engineer at **ConTe.it - Admiral Group**, Rome:

I'm working as System Administrator and Cloud Engineer, for the ConTe.it Customer team: in my role, I manage the servers and processes built on AWS cloud, from network\security topics to management of release pipelines (in particular, with the use of Jenkins), up to the creation\management of CI\CD processes. Recently, I also assumed the role of administrator of the company's WordPress applications. I manage the integration between different systems (Graphana, SonarQube, Jenkins, ..) and the servers life cycle via Packer\Ansible processes.

- Packer
- Ansible
- CodePipeline\CodeBuild
- RDS\Aurora\MySQL\SQL Server
- API Gateway\Lambda Functions
- CloudWatch\Events\Dashboard
- AWS Transfer Family\SFTP
- CI\CD
- Jenkins
- SonarQube
- WordPress Administration
- Network\Security (VPC, NACLs, SGs, Route Tables, ..)
- AWS
- CentOS, RedHat
- Git\CodeCommit
- Bash\Python scripting

June 2018 - March 2020

Software Developer Junior at **ConTe.it - Admiral Group**, Rome:

I'm a PHP software developer (frontend and backend), using the Laravel framework (TDD & BDD methodology, code versioning using Git and CodeCommit); every day, I also used the SQL language (MySQL databases) and managed the static analysis of the code through SonarQube. The projects in which I participated were built on AWS cloud, where I also managed release pipelines (in particular, using CodePipeline and CodeBuild). In particular, I worked on the migration to AWS (with a serverless architecture, created by myself) of an entire ETL nightly process.

- PHP
- SonarQube
- SQL, MySQL
- Unit\E2E test
- Bash shell scripting
- CodePipeline\CodeBuild
- ETL
- DataPipeline
- RDS\Aurora
- Git\CodeCommit
- Javascript
- HTML
- CSS
- Laravel
- AWS

## ABOUT ME

I'm 33 years old, I have a master's degree in "Astronomy and Astrophysics" at the "La Sapienza" University of Rome and I'm specialized on Dynamics of Dense Stellar Systems and Exoplanets Systems. I started my career as a PHP Full-Stack Software Developer and after 2 years I moved in the Infrastructure\DevOps team. I worked on AWS and Azure (also migrating from private to public cloud) with a strong focus on IaC (Terraform and Cloudformation) and configuration management tools (Ansible and Puppet), architecting cloud-native solutions (vanilla Kubernetes on-prem, EKS, AKS and Rancher) and managing network\security topics (VPC, VNET, Subnet, Route Table, Transit Gateway, Peering, VPN, etc..), CI\CD (Azure DevOps, GitHub, GitLab) and SAST (SonarQube). Also, I've gained experience in Agile and SAFE Agile contexts, by supporting lots of technical and product teams. What is more, I followed different Data Platform projects, in architecture, CI\CD and tuning processes. In conclusion, I defined myself as ambitious, extrovert and productive: I like to work on a team (more brains are better than one!), I find it a challenging way to improve my own skills and results.

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Monterotondo (RM), 20\09\2025

Matteo Cristiano