

# MARCO BERTOLINO

Lead Cloud/Cybersecurity Engineer | MSc Cybersecurity

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[github.com/bertomaa](https://github.com/bertomaa)

[Marco Bertolino](#)



## EXPERIENCE

### Lead Cloud Engineer Excellence Cloud

Jan 2025 – Present

Munich, Germany

- Leading the design, development, and maintenance of scalable, multi-cloud infrastructure across Google Cloud Platform (GCP) and Microsoft Azure, ensuring portability and consistent deployments.
- Utilizing Terraform and Terragrunt to implement infrastructure-as-code (IaC) best practices with modular, reusable configurations and environment-specific state management.
- Building and maintaining CI/CD pipelines using GitHub Actions, supporting automated testing, security scanning, and cloud resource provisioning.
- Administering and optimizing GKE (Google Kubernetes Engine) clusters with advanced container orchestration, including service mesh implementation and autoscaling policies.
- Implementing comprehensive observability and monitoring solutions using Prometheus, Grafana, and cloud-native monitoring tools to track infrastructure health, application performance, and cost optimization metrics.
- Deploying runtime security monitoring with Falco and eBPF-based detection for anomalous container behavior, system calls, and potential security threats across Kubernetes workloads.
- Ensuring all infrastructure and operational practices align with ISO 27001 compliance standards, supporting organizational security and governance objectives.

### Cloud Security Consultant

Spike Reply

Oct 2023 – Dic 2024

Munich, Germany

- Performed detailed analysis of client cloud infrastructures to identify and resolve security vulnerabilities in both development and production environments, utilizing both manual assessments and automated tools.
- Built secure Kubernetes environments with Infrastructure as Code (IaC) tools, including Terraform and GitHub pipelines, configuring AWS EKS clusters, Istio service meshes, and Kyverno for security policies.
- Established security best practices for public-facing HTTP REST API gateways, ensuring compliance with industry standards for certificates, protocols, headers, authentication, authorization, and logging.
- Conducted comprehensive security posture evaluations using WIZ, identifying critical vulnerabilities and exposures, and providing actionable recommendations for mitigating risks in cloud environments.

### Cloud Engineer Intern

Siemens

Mar 2023 – Aug 2023

Munich, Germany

- Led and implemented the first version of a data trading blockchain system supported by an Azure infrastructure using Canton
- Managed all system components using Terraform.
- Crafted the smart contracts for the data trading platform using DAML.
- Led the development of a patent proposal.

## CERTIFICATIONS

### Certified Kubernetes Administrator

The Linux Foundation

2024

Proficient in managing Kubernetes clusters across application lifecycle, networking, security, storage, and troubleshooting.

### Certificate of Cloud Security Knowledge v.4

Cloud Security Alliance

2023

Expertise in cloud security best practices across key domains and frameworks (CSA, CCM, ENISA).

### Microsoft Azure Fundamentals (AZ-900)

Microsoft

2023

Comprehensive understanding of Microsoft Azure cloud services and fundamental knowledge of cloud computing concepts, including security, privacy, compliance, and pricing.

### Cisco Certified Network Associate (CCNA) Routing and Switching

Cisco

2018

Proficiency in installing, configuring, operating, and troubleshooting medium-size routed and switched networks.

## LANGUAGES

Italian

English

Native

Proficient

## Software Engineer intern

[Edugo.ai](#)

📅 Nov 2020 – Apr 2021

📍 Remote - Shanghai, China

- Used React.js to enhance the student learning web platform's user experience and interface.
- Developed the core infrastructure of a mobile app using React Native, projected to reach over 50,000 users shortly after its launch.
- Adopted Agile and Scrum methodologies for effective project management and collaboration.

## Full Stack Developer

[Freelance - Idem SRL](#)

📅 April 2019 - June 2020

📍 Vicenza, Italy

- Independently architected and developed an iOS and Android mobile application using Flutter and Firebase for a renowned sandwich company. This application enhanced customer experience with features such as exclusive discounts, special offers, and friend referral capabilities.
- The application successfully gained 2.5k customers within just three months of its launch, validating its efficacy and user appeal.

## EDUCATION

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### MSc double degree - Cyber Security

[EIT Digital Master School](#)

📅 Sept 2021 - Aug 2023

→ MSc Cybersecurity for Cloud

GPA 4.0/4.0

[Eurecom](#)

📅 Sept 2022 – Aug 2023

📍 Sophia Antipolis, France

→ MSc Cybersecurity

GPA 3.3/4.0

[University of Turku, Finland](#)

📅 Sept 2021 – Aug 2022

📍 Turku, Finland

### BSc Computer Science

GPA 4.0/4.0

[Trento University](#)

📅 Sept 2018 – Jul 2021

📍 Trento, Italy

Thesis: Hybrid Mobile Applications: Analysis and Usage of the React Native Framework

## PROJECTS

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### AWS EKS Security Template

[github.com/bertomaa/aws-eks-k8s-security-boilerplate](https://github.com/bertomaa/aws-eks-k8s-security-boilerplate)

- Automated secure AWS EKS infrastructure deployment using Terraform, with GitHub Actions CI/CD and modular state management across environments.
- Integrated Istio for mTLS, Kyverno for network/image policies, and Kubernetes RBAC to enforce namespace isolation and zero-trust access controls.
- Containerized Node.js and PostgreSQL apps with hardened security settings, immutable ECR image tags, and EKS Pod Identity for fine-grained AWS resource access.

### Cloud Resume Challenge

[github.com/CRC-bertoma/CRC](https://github.com/CRC-bertoma/CRC)

- Developed a scalable visitor counter for personal website marcobertolino.dev using Azure serverless functions and Cosmos DB, demonstrating practical application of cloud services and distributed database management.
- Leveraged Terraform for infrastructure setup, promoting Infrastructure as Code (IaC) practices, and orchestrated deployment through GitHub Actions CI/CD pipelines, ensuring streamlined and reliable updates.