

MARCO BERTOLINO

Lead Cloud/Cybersecurity Engineer | MSc Cybersecurity

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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

MSc double degree - Cyber Security

[EIT Digital Master School](#)

📅 Sept 2021 - Aug 2023

→	MSc Cybersecurity for Cloud Eurecom	GPA 4.0/4.0
	📅 Sept 2022 – Aug 2023	📍 Sophia Antipolis, France
→	MSc Cybersecurity University of Turku, Finland	GPA 3.3/4.0
	📅 Sept 2021 – Aug 2022	📍 Turku, Finland

BSc Computer Science

[Trento University](#)

📅 Sept 2018 – Jul 2021

GPA 4.0/4.0

📍 Trento, Italy

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

PROJECTS

AWS EKS Security Template

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

- 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.