MARCO BERTOLINO

Lead Cloud/Cybersecurity Engineer | MSc Cybersecurity

@ marcobertolino.developer@gmail.com   ⌾ github.com/bertomaa   in Marco Bertolino

EXPERIENCE

Lead Cloud Engineer
Excellence Cloud

📅 Jan 2025 – Present   📍 Munich, Germany

- Leading the design, development, and maintenance of scalable cloud infrastructure across Google Cloud Platform (GCP) and Microsoft Azure.
- Utilizing Terraform and Terragrunt to implement infrastructure-as-code (IaC) best practices and ensure repeatable, version-controlled deployments.
- Building and maintaining CI/CD pipelines using GitHub Actions, supporting automated deployments and cloud resource provisioning.
- Administering and optimizing GKE (Google Kubernetes Engine) clusters to support containerized workloads and ensure high availability.
- 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.

Software Engineer intern
Edugo.ai

📅 Nov 2020 – Apr 2021   📍 Remote - Shangai, 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.

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	Native
English	Proficient

EDUCATION

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

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.
- Ensured product quality by implementing end-to-end testing using Cypress.

Eurobook
github.com/bertomaa/Clouds-EURECOM-2022

- A social networking platform for EURECOM, focused on implementing a fault-tolerant backend system.
- Leveraged C++ and gRPC to achieve a scalable dynamic key-value storage system.

Char frequency Analyzer in C
github.com/bertomaa/C-CharFrequencyAnalyzer

In the "Operating Systems" course at the University of Trento, I developed a multiprocess program in C to analyze character frequencies within text files. The architecture of the system is designed to manage multiple processes concurrently, with specific processes for counting, analyzing subsets of data, and handling specific sections of input files.