MARRONE PIETRO

Computer Network and Cloud Engineer

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PERSONAL INTRODUCTION

I am Pietro Marrone, a Computer Engineer with a **Master's in Computer Networks and Cloud Computing.** I have a strong interest in IoT, cybersecurity, AI and cloud world. Driven by *curiosity, attention to detail, and a continuous desire to learn*, I am constantly expanding my skills and knowledge.
Currently, I work at Reply Group, where I specialize in delivering innovative cloud solutions based on Google Cloud technology.

EDUCATION

State Exam for Qualification to the Profession of Information Engineer - Section A

Politecnico di Bari e Ordine degli Ingegneri della provincia di Bari

📅 11/2024   📍 Bari - Italy

- Grade: **Enabled**

International program E+/EU PROGRAM COUNTRIES 2023/2024

DTU (Danmarks Tekniske Universitet)

📅 08/2023 - 08/2024   📍 Copenaghen - Denmark

- Thesis in: Exploring Device-to-Device (D2D) Communication in Cellular Technology. 5G and Beyond.
- Authentication Service Project: design and implementation of an Authentication Service within a Mininet-created virtual network.

Master's Degree in COMPUTER ENGINEERING - Computer Networks and Cloud Computing

Politecnico di Torino

📅 09/2022 - 10/2024   📍 Torino - Italy

- Grade: **110/110 with honors**
- Surplus Food Rescue Web Application: Web App aimed at reducing food waste by rescuing surplus food from shops and restaurants. Promote sustainability by facilitating efficient recovery of excess food.
- Tamagotchi Simulation Project: delivered an animated virtual pet interface displayed on an LCD with a seamless 1-second refresh rate, optimizing user experience through responsive and dynamic animation.
- Transcript of Grades

Bachelor's Degree in COMPUTER AND AUTOMATION Engineering

Politecnico di Bari

📅 10/2019 - 07/2022   📍 Bari - Italy

- Grade: **110/110 with honors**
- Zero Waste Error Project: Web app leveraging Vertex AI (GCP) to identify waste materials and automate disposal processes, improving waste management efficiency through AI-driven recognition for environmental sustainability.
- Transcript of Grades

LANGUAGES

English
Proficient   ●●●●○

SKILLS

| GCP | IaC | Terraform | Cloud Computing | Cybersecurity |

| Kubernetes | Docker | GitHub | ISO 27001 | Javascript |

| Linux | Microsoft 365 | Network Infrastructure and DC | React |

EXPERIENCE

Cloud and DevOps Engineer

GO Reply

📅 11/2024 - Present   📍 Torino - Italy

Google Cloud Foundation – IEO Research
Contributed to the design and implementation of the Google Cloud Foundation for IEO Research. Activities included setting up the Resource Manager hierarchy, hub-and-spoke networking architecture, VPC Service Controls, centralized IAM, logging, security policies, DNS configuration, and infrastructure automation using Terraform.

On-Premise to Cloud Migration (GCP)
Participated in the migration of workload applications from on-premises infrastructure to a Google Cloud Platform-based architecture. Tasks involved network provisioning, utilizing GKE for container orchestration and Cloud SQL for managed databases. Designed and deployed a secure, scalable environment incorporating Cloud Armor (L7 protection), Identity-Aware Proxy, and inter-environment firewall rules. Successfully delivered the solution in production.

CERTIFICATIONS

Terraform Associate

📅 07/2025 - 07/2027   📍 HashiCorp

Certified in infrastructure as code (IaC) with Terraform, with proven skills in provisioning, state management, module development and cloud automation aligned with industry best practices.

Google Professional Cloud Architect Certification

📅 04/2024 - 04/2027   📍 Google

Advanced knowledge in designing, developing, and managing secure, scalable, and reliable cloud solutions on Google Cloud Platform. Skilled in aligning technical strategies with business objectives.

ETHICAL HACKER & PENETRATION TESTER

📅 09/2022 - Present   📍 Fata Informatica

Achieved certification as an "Ethical Hacker & Penetration Tester", demonstrating proficiency in identifying system vulnerabilities and implementing strategic cybersecurity measures to safeguard against threats.

COURSES

QUALITY MANAGEMENT SYSTEM AUDIT GROUP

Achieved certification as a Group Manager/Auditor in Quality Management Systems, with a final examination validating expertise in audit methodologies and quality assessment practices. Contributed to enhancing quality standards and influencing the work of 15+ team members through improved process oversight and compliance awareness.

VOLUNTEERING

Volunteer – Roskilde Festival

Roskilde Festival

📅 07/2024 - 07/2024   📍 Roskilde, Denmark

Supported event operations at one of Europe's largest music festivals.

COURSES

Lead Auditor of Information Security Management Systems (ISO 27001:2017)

Certified as a "Lead Auditor for Information Security Management Systems" according to ISO 27001:2017 standards, equipped with expertise in auditing, managing, and ensuring compliance with global security protocols.

ISO 19011:2018

Acquired knowledge and skills through the completion of the "BASIC MODULE FOR AUDITORS/AUDIT GROUP MANAGERS, ISO 19011:2018," strengthening the ability to identify compliance risks and enhancing overall audit effectiveness within the organization.