GIOVANNI TAMMARO

AWS Solutions Architect | Platform Engineer
Portugal (Remote) | Email: giovannitammaro76@gmail.com
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Projects: greeksplayground.com

Professional Summary

Network Engineer with over 15 years of experience across several IT domains and AWS cloud knowledge. Background in network automation, cloud infrastructure, Kubernetes, CI/CD pipelines, and Linux systems. Over the last four years, I have also worked as a Quantitative Researcher (Freelance), designing and operating automated trading systems on AWS with a focus on risk management.

Skills

Cloud Platforms: AWS (VPC, IAM, EC2, EKS, S3, Route 53, Bedrock, Lambda)

Containers & Orchestration: Docker, Kubernetes, Helm

Automation & DevOps: Python, CI/CD, GitHub Actions, Jenkins, AWS CodePipeline, Ansible

Operating Systems: Linux (Ubuntu, Amazon Linux)

Security: IAM, GuardDuty, Inspector, DevSecOps, Network Security

Networking: TCP/IP, Routing, Load Balancing, Distributed Systems

Work Experience

AWS Cloud Engineer - Independent Projects

Freelance | Remote

Jan 2024 - Present

- Designed and operated cloud-native workloads on **AWS** with cost optimization and observability.
- Implemented security controls including **GuardDuty**, **AWS Config**, **Inspector**, **IAM Access Analyzer**, SG/NACL segmentation.
- Operated **EKS** clusters with RBAC, Pod Security, NetworkPolicies, and workload isolation.
- Built **CI/CD pipelines** using Jenkins and **AWS CodePipeline** for automated testing and deployments.
- Implemented RAG pipelines using **AWS Bedrock**, embeddings, and vector search.

Algorithmic Trader / Quantitative Researcher (Freelance)

Self-Employed | Remote

Jan 2022 - Present

- Designed and operated automated trading systems on AWS (EC2, Lambda, S3) using Python.
- Built data ingestion pipelines using WebSocket APIs for real-time market data collection and analysis.
- Implemented automated risk frameworks including drawdown constraints and position monitoring.
- 1st place at The5ers Hackathon (July 2025) for strategy design and execution.

Network Automation Engineer

Fiserv | Ireland

Aug 2021 - Dec 2021

- Refactored Django backends and JavaScript frontends, improving performance.
- Reduced page load times by 40-60%, PostgreSQL CPU usage by ~30%, API response times to below 200 ms.
- Converted tribal knowledge into structured documentation.

Network Development Engineer II

Amazon Web Services (AWS) | Dublin, Ireland

Apr 2017 - Aug 2021

- Built automation and internal tooling for Amazon's global datacenter network, reducing manual operations.
- Built a Load Balancer provisioning automation system with React frontend and Python backend.
- Designed and delivered a zero-touch pre-provisioning platform (Python, EC2, S3) for L7 hardware deployments.
- Optimized internal dashboards by rewriting ingestion logic to multithreaded processing, increasing throughput by ~40%.
- Mentored junior engineers and collaborated with senior leadership on cross-team initiatives.

Network Deployment Engineer I
Amazon Web Services (AWS) | Dublin, Ireland
Aug 2015 - Apr 2017

- Delivered projects under the Aggregation Scaling & Deployment (ASD) program.
- Created deployment templates enabling spine scaling, increasing datacenter network capacity by ~30%.
- Executed multi-region deployments, improving consistency and availability.

Network & Systems Engineer
Parker Hannifin | Milan, Italy
Apr 2004 - Jul 2015

- Led datacenter consolidation and Active Directory migrations across EU and UK sites, reducing authentication latency by 40%.
- Delivered virtualization initiatives using VMware, reducing workstation provisioning time from 40 min to under 5 min.
- Executed network refresh projects, improving bandwidth efficiency by ~30%.
- Presented technical results to C-level executives; recognized through company Talent Program.

Security Consultant
Freelance | Milan, Italy
Jan 2002 - Apr 2004

- Implemented and optimized Trend Micro security solutions, IDS/IPS, and endpoint protection.
- Managed incident response workflows and integrated security platforms within on-prem networks.
- Supported security audits and compliance initiatives.

Projects
Atlas AI RAG Financial Showcase: production-grade financial RAG platform with multi-provider LLM routing, pgvector retrieval, and cost-aware inference.

Implemented security architectures with AWS Shield, GuardDuty, WAF, IAM, and infrastructure as code using Terraform and CloudFormation.
GreeksPlayground.com - Interactive options Greeks playground with Black-Scholes pricing approximation.
GitHub: github.com/giovannitammaroaws

Certifications
AWS Certified Solutions Architect - Associate (ID 505325920)
AWS Knowledge Badge: Amazon EKS
Cisco Certified Network Professional (CCNP) (ID CSCO12543177)

Languages
Languages: Italian (Native), English (Fluent), Spanish (Basic), French (Basic), Portuguese (Basic)