

# GIOVANNI TAMMARO

AWS Solutions Architect | Platform Engineer

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Projects: [greeksplayground.com](https://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**

Hands-On AWS Projects: Built RAG pipelines and Generative AI applications using AWS Bedrock, Lambda, and DynamoDB. Implemented security architectures with AWS Shield, GuardDuty, WAF, IAM, and infrastructure as code using Terraform and CloudFormation.

Designed and executed AWS migration strategies and multi-account architectures.

GreeksPlayground.com - Interactive options Greeks playground with Black-Scholes pricing approximation.

GitHub: [github.com/giovannitammaroaws](https://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)