**GIOVANNI TAMMARO**

AWS Solutions Architect | AI Platform Engineer

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Portfolio: <https://giovannitammaroaws.github.io/portfolio/>

**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 (All on GitHub)**

* [Atlas AI RAG Financial Showcase: production-grade financial RAG platform with OpenAI and Anthropic API integration, multi-provider LLM routing, pgvector retrieval, and cost-aware inference.](https://github.com/giovannitammaroaws/atlas-ai-rag-financial-showcase)
* [Implemented security architectures with AWS Shield, GuardDuty, WAF, IAM, and infrastructure as code using Terraform and CloudFormation.](https://github.com/giovannitammaroaws/aws-secure-baseline-terraform)
* [Interactive options Greeks playground with Black-Scholes pricing approximation.](https://github.com/giovannitammaroaws/options-greeks-showcase)

**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)