

Jocelyn FONTAINE

Cloud & AI Architect

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Gaillac-Toulza (31550), France
16 years of experience

About

Cloud & AI Architect with 16 years of experience designing AWS architectures, secure AI integration, and IT modernization. Specialized in AWS Landing Zones, security architecture, FinOps, and infrastructure-as-code. Delivers autonomous AI systems (secure RAG, multi-platform agents), national cloud migrations, and resilient solutions for regulated sectors. AWS Certified Solutions Architect, TOGAF Foundation certified.

Skills Areas

AWS Architecture & Cloud Security

Design of critical AWS architectures: Landing Zones, identity management, transit gateway, multi-layer security. Cloud security mastery (IAM least privilege, KMS BYOK, WAF, Cloudfront, Private CA, Keycloak/SAML/OIDC SSO). Risk assessment and remediation for complex platforms. Design of resilient solutions with high availability and disaster recovery. Landing Zone governance for governments and major industrial groups (Solvay, Monaco Government, Air France-KLM).

Autonomous AI Systems & Secure RAG

Production-grade RAG architecture design: end-to-end (ingestion, retrieval, generation, audit), vector search with document-level access control, LLM pipelines with token control and retry strategies. Autonomous agent systems with hybrid decision-making (deterministic veto + LLM scoring) and human-in-the-loop feedback loops. RAG-based knowledge systems for constraint enforcement (tone, style). Complete audit trails and traceability implementation. Property-based testing for system invariant validation. Stack: Python FastAPI, Amazon Bedrock, PostgreSQL pgvector, AWS infrastructure.

FinOps & Infrastructure-as-Code

AWS cost optimization (Saving Plans, BYOL, data consumption, FinOps architecture). Infrastructure-as-code design and implementation with Terraform Enterprise and Vault Enterprise. Multi-site national/European infrastructure orchestration and automated deployment. AWS native CI/CD pipelines (CodeBuild, CodePipeline, EventBridge). Observability tooling configuration (CloudWatch, Grafana, Prometheus). Complex application migrations (lift-and-shift, refactoring). Continuous platform support and 24x7 improvement.

Technical skills

Cloud Platforms

AWS (EC2, ECS, EKS, RDS, S3, IAM, KMS, Lambda, API Gateway, CloudFront, WAF, ALB, Route53, EventBridge), Azure, GCP

Infrastructure & DevOps

Terraform, Terraform Enterprise, Vault Enterprise, GitLab, Azure DevOps, Jenkins, Kubernetes, Docker, Git

Security & Compliance

IAM, KMS BYOK, Private CA, WAF, Cloudfront, Cognito, Keycloak, SAML/OIDC, SSO, Siteminder, Kerberos, LDAP, OpenLDAP

AI & Data

Amazon Bedrock, PostgreSQL (pgvector), Python (FastAPI, asyncio), LLM Pipelines, RAG, Hypothesis (property-based testing)

Monitoring & Observability

CloudWatch, Splunk, Grafana, Prometheus, InfluxDB, Dynatrace, Centreon, NAGIOS, Graylog

Legacy & Middleware

J2EE 1.4-5, .NET, Websphere 5-6, Tomcat, Apache, Spring, Hibernate, Active Directory, Alfresco, Windchill, Foundry

Education

Coursera	2020
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Google Cloud Platform Fundamentals for AWS Professionals

Global Knowledge	December 2017
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Implementing Microsoft Azure Infrastructure Solutions

Global Knowledge	December 2017
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Security Operations on AWS

ABC Systeme	October 2016
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AWS Technical Essentials

ABC Systeme	October 2016
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AWS Solutions Architect - Associate

Open Group	April 2015
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TOGAF Foundation + Certified 9.1

SQLI Toulouse	July 2009
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Overview of Computer Architectures

IUP Informatique Avignon	2000-2003
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Master's Degree in Mathematics and Computer Sciences

Languages

French	Native
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Experience

Solvay

Since November 2025

AWS Solution Architect

Solvay - Leading AWS architectures for applications and Landing Zone design.

- Design and architecture of AWS solutions for applications and Landing Zone ; Constant documentation review
- AWS platform leadership in coordination with Infra Lead Architect ; Responsibility for AWS changes
- Guidance of Infrastructure Cloud Engineers ; Increased Robustness and Security
- FinOps collaboration for cost control and reduction

AWS, Azure, Jenkins, Terraform

Galiceau

Since 2026 (Freelance)

AI Systems Architect - Secure RAG / Agentic AI Systems Architect

Galiceau - Design of autonomous AI systems and secure RAG for enterprise documents and multi-platform publishing.

- Secure RAG - End-to-end architecture (ingestion, retrieval, generation, audit) ; Vector search with document-level permissions ; LLM pipelines with token control and concurrency ; Secure AWS infrastructure (KMS BYOK, IAM least privilege)
- Agentic AI - Autonomous multi-platform agent (generate / evaluate / decide / act) ; Hybrid decision-making (deterministic + LLM) ; RAG-based knowledge system for constraint enforcement ; Engagement agent (feed scanning, reply generation) ; Human-in-the-loop via Telegram

Python (FastAPI, asyncio), Amazon Bedrock, PostgreSQL (pgvector), AWS (ECS Fargate, RDS, S3, KMS, Cognito, CloudWatch), Terraform, Docker, React/TypeScript, Telegram Bot API

Cegid

October 2024 - October 2025

AWS Architect & Lead DevOps

Cegid - Cloud team support for AWS platform implementation.

- Tech Lead and AWS/DevOps Advisor ; Landing Zone design and implementation
- Application migration support to AWS ; CI/CD pipeline design and implementation
- FinOps support (Saving Plans, BYOL, data consumption optimization)

Terraform, AWS Cloud WAN, Transit Gateway, Direct Connect, IAM, Azure DevOps, Dynatrace

Smeg

February 2023 - August 2024
(Freelance)

AWS Solution Architect

Monaco

Smeg - Infrastructure team support for AWS platform construction and improvement.

- Smeg Landing Zone design and implementation (IAM, VPN, Transit Gateway, Config Rules, Security)
- EKS/RDS pattern design for Smeg applications ; VDI solution design and implementation based on AWS Workspaces
- Public Endpoint security strategy (WAF, Cloudfront, WEB ACL, ALB, API Gateway) ; Private CA and Private Hosting Zone
- Resilient and scalable GitLab architecture ; IaC adoption (Terraform, GitLab) ; Backup/restore strategy ; FinOps support

AWS, Transit Gateway, VPC, IAM, EKS, EC2, RDS, S3, AWS Backup, Kubernetes, Workspaces, Terraform

BPiFrance / TeamLogs

July 2025 - September 2025 / June
2025 - July 2025 (Freelance)

AWS Security Architect

BPiFrance & TeamLogs - Cloud security audits and remediation.

- Comprehensive security audits ; Identification and categorization of high-risk security deficiencies
- Detailed remediation plan development ; FinOps support for cost optimization

AWS, Azure, Jenkins, Terraform (BPiFrance) ; AWS, EC2, IAM, IoT, API Gateway, S3, ALB/NLB, Lambda (TeamLogs)

MoodWork / Monaco Government

January 2025 - May 2025 / May
2022 - February 2024 (Freelance)

AWS Solution Architect

MoodWork & Monaco Government - Data segregation architecture and sovereign Data Platform.

- MoodWork - Robust data segregation strategy implementation ; Application-level encryption design and implementation ; EKS platform critical review
- Monaco - Design and deployment of Data Platform for Monaco Government ; Landing Zone (Identity Baseline, Transit Gateway, Site-to-Site VPN, Client VPN) ; Terraform Enterprise and Vault Enterprise architecture ; Keycloak SSO (SAML/OIDC) ; Vault-based Public Key Infrastructure

AWS, EKS, KMS, Kubernetes, Terraform, Java (MoodWork) ; AWS EC2/RDS/Route53/ACM/KMS/ECS, Terraform, Vault, GitLab, Keycloak, SSO (Monaco)

Vallourec / Safran Cabin

May 2022 - July 2022 / January
2022 - April 2022 (Freelance)

FinOps Architect / Data Platform Solution Architect

Vallourec & Safran Cabin - AWS cost assessment and Data Platform construction support.

- Vallourec - Cost and Usage Assessment (Brazil, US) ; AWS application evaluation ; Optimization elaboration
- Safran - Data Platform construction support for Safran Cabin and Safran Group on AWS

AWS (Vallourec) ; AWS (Safran)

Airbus (multiple missions)

2019 - 2021 (Freelance)
Toulouse / Blagnac

AWS Solution Architect

Airbus - Multiple projects: Customer Line Execution System, Data Factory monitoring, Skywise platforms.

- CLES (October 2021 - December 2021) - CLES System development ; CLES Dataset building pipeline in Skywise ; Data model design ; PoC for Skywise CLES ingestion pipeline
- Data Factory (October 2018 - March 2019) - Monitoring solution design ; Splunk Dashboards for historical/real-time insights
- Skywise DX/DA (April 2019 - April 2020) - Technical Leader ; Massive Data Extractor design and deployment ; Architecture consultation and support

AWS Glue/S3/IAM/RDS/CloudWatch/EventBridge/Lambda/SQS, Terraform, Github, Python, Foundry (CLES) ; Foundry, Splunk (Data Factory) ; AWS Lambda/ECS/S3/SNS/IAM/KMS/Step Function/Cloudfront/CloudFormation, MobileSSO, OneLogin, Mulesoft, Salesforce, Foundry, Jenkins, Cucumber, SonarQube (DX)

Monaco Digital / AXA Group Operation / Roche Diagnostics

2020 - 2021 (Freelance)

AWS Solution Architect / Security Architect

Monaco Digital, AXA, Roche - Sovereign cloud, risk assessment, solution design.

- Monaco Digital (January 2021 - November 2021) - Sovereign cloud for Monaco Government and OIV ; CMP and Monitoring PoC ; Landing Zone ; Hosting zone monitoring ; PKI for Certificate Authorities ; AWS IAM to VMware Identity Manager federation
- AXA (October 2020 - December 2020) - Risk assessments for AWS services/applications ; AWS Foundation Assurance Plan
- Roche (October 2020 - March 2021) - META1 Solution design from PoC ; Security improvement and Roche Security Standard alignment ; CI/CD design

AWS OutPost/Organization/Config
Rules/EKS/ECS/Kubernetes/SSO/RDS/Kinesis/EC2/ALB/Route53/Cloudfront/WAF, Terraform Enterprise, Terraform Vault, GitLab, CloudBolt, Ansible, Grafana, InfluxDB, Prometheus (Monaco) ; AWS (AXA) ; AWS Route53/Cloudfront/Cognito/Amplify/AppSync/CMK/KMS/S3/IAM/API
Gateway/DynamoDB/Elasticsearch/CloudWatch/SES/CodeBuild/CodePipeline, Sumologic, Dome9, Gitlab (Roche)

Air France-KLM / NavBlue

2018 - 2019 (Freelance)

Cloud Security Architect / AWS Solution Architect

Toulouse / Blagnac

AF/KLM & NavBlue - Hybrid Cloud security and infrastructure operations.

- AF/KLM (January 2018 - July 2018) - Cloud strategies promotion and support ; Hybrid Cloud Security Best Practices (AWS/Azure) ; Target Architecture design ; Security design patterns ; 24x7 continuous service transition ; RFP support (IDaaS, CASB)
- NavBlue (December 2018 - March 2019) - Dedicated Ops solutions ; PoC validation ; EKS (Kubernetes) architecture and infrastructure ; Infrastructure as Code automation ; Ops Team adoption support ; Architecture documentation

AWS, Azure (AF/KLM) ; Terraform, AWS (EKS/EC2/VPC/RDS/Lambda/Route53/ELB), Kubernetes, Grafana, Prometheus, Dashboard K8s, Jenkins (NavBlue)

Airbus (long tenure)

July 2012 - December 2017

(Freelance)

IT Architect for Physical Design / Java/J2EE Expert

Saint-Martin du Touch / Blagnac

Airbus - Technical design of solutions and infrastructure ; 5+ years engagement.

- Technical design of solutions and infrastructure per functional architecture and Business SLA ; Alignment with Airbus standard middleware (VAX/VMS, MS SQL, DB2, AIX, Websphere, Tomcat, Oracle, Windows) ; Security policy and operational constraints
- Infrastructure components definition (IaaS, PaaS, storage, network) aligned with Airbus standards ; High availability design ; Technical architecture workshops and cost estimation (Hardware, Software, Operations, Design)
- Architecture scenarios evaluation with pros/cons analysis and associated budget ; Validation meetings with project, security, operation teams

J2EE, .NET, LDAP, Unix, Solaris, Windows, Apache, Tomcat, Websphere, Siteminder, Kerberos, Security, Windchill, AIX/Solaris, VMS, ESX, Active Directory, PaaS, IaaS, Grid Computing, LSF

Airbus France / Orange / La Poste / Infotel

2006 - 2011 (Various)

IT Architect / Technical Manager / Technical Expert

Early career roles - IT architecture, technical exploitation, integration projects.

- Airbus France (November 2007 - December 2010) - Architect for Functional Design Activities for engineering departments ; Validation of application solutions ; Consistency with Airbus standards
- Orange (June 2006 - October 2007) - Technical exploitation of E-Technician application (front office PDA/WAP, back office Web) ; Updates development (batch, Java components, bug fixing) ; Operations management, monitoring, bug tracking
- La Poste (August 2005 - May 2006) - Habilinet to W@C Portal (Vignette) interfacing study ; Prototyping, unit/integration/workload tests ; Habilinet 2.1.0 production
- Infotel (October 2011 - April 2012) - ADOC Manager V3.1 project support ; SGML documents bulk

import/export prototype ; Architecture analysis and evolution design

J2EE, .NET, LDAP, Unix, Solaris, Windows, Apache (Airbus France) ; Windows CE, IE, Linux, J2EE, JSP, XML/XSL, AXIS, WAP, Web Services, Jolt/Tuxedo, Oracle, JMS, MQ-Series (Orange) ; Windows, ASP, ASP.NET, DNA, COM+, VB6, C#, .NET, SQL Server, Oracle, Vignette (La Poste) ; Java, J2EE, Hibernate, JBoss, Spring, Tomcat, Oracle, Linux (Infotel)

BRL / GFI Informatique / Generali

2004 - 2009

Software Engineer / Technical Project Manager / IT Architect

Early career - Software development, project management, technical design.

- BRL - Software Engineer (December 2004 - May 2005): Borneo system component design and development ; Testing and integration ; Quartz (OpenSymphony) integration
- BRL - Technical Project Manager (June 2005 - August 2005): BRL information system integration (Borneo) ; Operations monitoring, updates implementation, bug tracking
- GFI Informatique (2006 - December 2009): Platform design for agency projects ; Technical support ; Technical department creation and management
- Generali (April 2004 - May 2004): WebSphere 5.1 support tools design and development ; Java component wrapper scripts ; Unit and integration testing

Unix, Tomcat, Oracle, JSP, J2EE, JavaScript, HTML, Eclipse (BRL) ; J2EE, PHP, LemonLDAP, Oracle (GFI) ; AIX, Windows, SSH, Shell Script, JACL, J2EE, Log4J, Websphere (Generali)