



Jeremy CANALE

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SECURITY ENGINEERING & SOLUTIONS ARCHITECT

Head of R&D

PERSONAL SUMMARY

Specializing in I.T, I've amassed officially 10 years' experience. Unofficially, I have started playing around with a computer when I turned 11 years old. I'm passionate about translating project visions and objectives into reality, offering tangible results in line with stakeholders' expectations. I have often taken part in very complex digital transformations through different large companies that are generally leaders in their market. I had the chance to manage some international projects in different I.T area like cloud computing, cybersecurity & devOps. In my free time, I'm involved in developing startups. Python developer.

QUALIFICATIONS SUMMARY

- Engineering related to I.T security.
- Engineering related to cloud computing technologies.
- Engineering related to DevOps technologies.
- Multi-certified on AWS, Azure, GCP.
- Management experience in companies (25 people) and (10 people) within my own startup.
- Multinational professional experiences (France, Belgium, Switzerland)

CORE COMPETENCIES

- Cyber Risk Management & Operations, Vulnerability Assessment, CI/CD pipeline security
- Cloud Security Architecture Advisory Team, part of Cloud Center of Excellence
- Member of Design Authority & Architecture Board (API Standardization...)
- IT Governance strategy (Digital governance framework, Cloud Security framework...)
- IT Security Engineering (SOC capabilities, Endpoint's protection...)

CERTIFICATIONS

Jan. 2020:

Microsoft

- **Certified Azure Security Engineer Associate**



Jan. 2016 – 2020:

Amazon Web Services

- **Certified AWS Security Speciality**
- **Certified AWS Cloud Practitioner**
- **Certified AWS SysOps Administrator**
- **Certified AWS Developer**
- **Certified AWS Solution Architect Associate**



Dec. 2019:

Other

- **Certified Professional Scrum Master I**
- **Certified CCNA Cisco**



Jeremy CANALE - SECURITY ENGINEERING & SOLUTIONS ARCHITECT – Vice President

IT SKILLS – Programming / Computing Language

- Python (oriented IT security) (oriented Infrastructure as a Code) (oriented Web dev - Flask / Django)
- Infrastructure & DevOps (Cloud Computing with AWS Azure)
- CI/CD Pipeline Security & Vulnerability Assessment
- API REST Development & Security (API Gateway, Swagger)
- IAM (AAD, ADFS, STS)

LANGUAGES

English (fluent)

French (native)

EDUCATION

Associate Degree – Network and Telecommunications

BTS IRIS – Jean Perrin

2006-2008

High school Diploma - Industrial Science and Technology

Self-taught in I.T since the age of 10 years old.

Jeremy CANALE - SECURITY ENGINEERING & SOLUTIONS ARCHITECT – Vice President

PROFESSIONAL EXPERIENCES

2021 Jan. – Present., Zurich, Switzerland

SWISS RE -Turnover: €15 million - Insurance Industry



[Permanent Employee]

Expert Security Architect - VP

Reporting to the CISO & CTO

Achievements:

- Ensured IT security across different projects / business units: Working in CCoE Security Advisor team triggered by the Cyber Risk Management gate from the Global Digital Governance Framework:
 - o Security assessment of all the company's IT projects evaluation of the chosen architecture, detection of residual risks and scoping of pentests if required.
- Deployed Infrastructure for Red/Purple Team (Scythe/OpenCTI...) in Azure Cloud
- Defined the global security posture for our API customer experience standardization within the Design Authority Architecture Team (20 persons): standard for API provider, API publisher, API services catalog & API consumer.

2020 Jan. – 2021 Jan., Zurich, Switzerland

SWISS RE -Turnover: €1 billion

[Permanent Employee]

Cloud Security Architect - VP

Reporting to the Cyber Defense Board

Achievements:

- Defined a strategy to improve connectivity between our on-premises LaaS platform (Log As a Service) in order to fetch and push events logs to our cloud based SIEM platform.
- Defined a global strategy for Cloud Security Framework: defined Minimum Security Safeguards to implement within Architecture Blueprint to certify products. (Terraform)
- Developed SoC capabilities (Azure Sentinel SIEM) & playbooks for thread hunting. (Python)
- Developed a CISO real-time dashboard and analytics for CloudFlare KPIs (WAF status, assets protection status, SOC connectivity status...) to get a consolidated view of all SwissRe public endpoints (Flask/Python/Bootstrap/Azure)
- Performed security audits against Cloud assets
- Deployed Infrastructure for different business units

2018 Oct. – 2020 Jan., Paris, France

SOCIETE GENERALE -Turnover: €3 billion



[Contractor – 1 year]

CCoE Chief Information Security Officer

Reporting to the Group CISO

Achievements:

- Defined IT risk scenarios & risk assessment related to cloud services providers.
- Responsible for IT Security for the CCoE: Managed IT Security for 25 DevOps/Architects
- Managed the development of auto-enforcements and auto-compliance playbooks, part of our next-gen policy as a service software: Skynet (Budget: 5M€ for development)
- Developed Security stacks (automated logs processing, automated VM patching, automated, vulnerability assessment, malware detection without sandboxing using Machine Learning...)
- Developed new IT security concepts or cloud security services (PoC) in Python.

Awards:

- GTS Innovation Award - Machine Learning for Security

Jeremy CANALE - SECURITY ENGINEERING & SOLUTIONS ARCHITECT – Vice President

2018 Apr. – 2018 Jun., Paris, France

Thales Aerospace -Turnover: € 3.6 billion



[Contractor – 3 months]

Security Solutions Architect

Reporting to the Business Unit Manager

Achievements:

- Developed automated Cloud oriented SoC.
- Developed Cloud SSO & AD FS.
- Developed automated internal VM import to Cloud service provider.
- Pentested some applications running on Cloud.

2017 Dec. – 2018 Jun., Waterloo, Belgium

Baxter International -Turnover: €11.67 billion



[Contractor – 1 year]

Cloud Solutions Architect

Reporting to the Head of CCoE

Achievements:

- Migrated on-premises IT projects into cloud services providers.
- Defined IT architecture patterns to meet HIPAA compliance & Security.
- Defined high scalability & Disaster recovery process strategy.
- Developed Infrastructure as a Code using Python and Terraform/CloudFormation.

2016 Jun. – 2017 Jun., Paris, France

Veolia Water. -Turnover: €6.8 billion

[Contractor – 1 year]

Principal Security Architect

Reporting to the Chief Architect



Achievements:

- Defined architecture design patterns to meet I.T security company standards.
- Defined group I.T security strategy using AWS services
 - o <https://www.slideshare.net/JeremyCanale/aws-scurit-des-infrastructures>
- Migrated on-premises IT projects into cloud services providers.
- Developed automated cloud vulnerability assessment project.
 - o <https://www.slideshare.net/JeremyCanale/vaaas>
- Built OS Factory to provide hardened images for all our AWS subscriptions.
- Ensured the continuous delivery through native cloud provide pipeline services.

2015 Jan. – 2016 Jan., Paris, France

Dasault Systemes -Turnover: €5 billion



[Contractor – 1 year]

Production & Security Engineer

Reporting to the Infra Director & CISO

Achievements:

- Migrated on-premises IT projects into cloud services providers.
- Hardened critical production environments using honeypot, chrooting & hardening process.
- Performed pentests using OWASP methodology against production environments.
- Developed an UI for SaltStack opensource config management software in Python/Jquery in order to deploy software packages releases in an automated way on more than 500 VMs.
- Managed Web Application Firewall rules tuning.

OTHER EXPERIENCES

2020 Jan. – Present , Remote

Rankiteo LTD



Founder, Engineering Manager

- Risk Management startup focused on Climate Assessment & CyberSecurity Assessment
- Portfolio as a Service
- Official Release date: 1 april 2022
- Team size: 10 developers

Author of multiple publications related to IT security

Recruiter Notes.

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