# Max Habra

B.A.Sc., CISSP, CCSP, Security, Cloud & DevOps Certified
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## Professional Summary

15+ years in IT and security (10+ in architecture), specializing in cloud security, cryptography, governance, automation, and DevSecOps in agile teams. Leader in cloud integration, incident response, and modernization initiatives. Delivered cloud, AI, and DevSecOps programs including zero trust, GitOps, NoOps, and SIEM/SOAR foundation capabilities.

## Core Skills

**Cloud:** AWS, Azure, GCP, O365, Entra ID, Serverless
**Security:** Microsoft Defender, Microsoft Intune, Cryptography, HSMs, Defense-in-Depth
**DevOps:** Agile, Containers, Kubernetes, GitHub, Azure DevOps, HashiCorp Stack, Atlassian Stack
**SecOps:** Splunk, Microsoft Sentinel, SOAR, Incident Response, ServiceNow
**Big Data & AI:** Neural Networks, AutoML, Vision API, OCR/Tesseract, Jupyter, LLMs, AI Agents
**Governance:** ISO 27000, NIST SP 800, PCI DSS, OWASP, FIPS 140-2, CIS, Zero Trust, STRIDE, TOGAF
**Programming:** Bash, C#, C++, PowerShell, Python, HCL

## Professional Experience

### CDPQ – Global Investment Group                                    2021–2025
*Lead, Cloud Architecture Integrator & Incident Response, Security Operations Team*

- Led cloud architecture initiatives for the Security Operations Team.
- Improved security tools, pipelines, automation, and cloud practices across IT and business units.
- Secured Azure, AWS, and GCP assets and tenants, aligned with zero trust objectives.
- Implemented shift-left and GitOps in application security (50% reduction of operational costs).
- Improved incident response through automation, machine learning, and advanced analytics.
- Drove application security automation with Azure DevOps and GitHub Actions.

**Selected outcomes:** Complete SIEM/SOAR foundation, security-as-code integration, SecOps automation with LLMs, resilient Azure/AWS infrastructure.

### Mouvement Desjardins Group                                              2020
*Lead Cloud Integrator, Big Data & Artificial Intelligence, Innovation & AI Team*

- Led technical and architecture cloud integration for Innovation & AI.
- Supported federated marketing analytics and Big Data initiatives.
- Guided migration from IaaS applications to cloud-native SaaS/PaaS.
- Implemented identity federation with Google Cloud and Azure Active Directory (Entra).
- Expanded HashiCorp tooling (Terraform, Vault, Packer) for automation.

**Selected outcomes:** Cloud-native migrations, analytics automation, serverless data protection pipelines with DLP, Terraform and Git-based delivery automation.

## National Bank of Canada                                    2019–2020
*Lead, Cloud Security & Operations Engineer, Application Security Team*

- Led cloud security engineering and DevOps practices using infrastructure as code and SSDLC.
- Served as SME for Azure, AWS, GCP, private cloud, and container platforms.
- Implemented security-as-code and a cloud-native banking security framework.
- Led container security implementation (Kubernetes) and secure development practices.
- Built cloud security enablement programs for developers, teams, and management.

**Selected outcomes:** Security foundation operations, defense-in-depth Kubernetes framework, CASB, anti-fraud use cases with ML/DL.

## Morgan Stanley                                              2017–2019
*Senior Cloud Security Engineer, Cloud Practice, Security Architecture*

- Security architecture team member for cloud practice initiatives.
- Primary security architect/engineer for public and hybrid cloud projects (SaaS, PaaS, IaaS).
- Specialized advisor across AWS, Azure, GCP, and Salesforce cloud projects.
- Performed third-party security audits and remediation guidance.
- Contributed to cloud, CASB, cryptography, hybrid integration, and DevSecOps whitepapers.

**Selected outcomes:** Public cloud security designs, IPO security audits, firmwide migration support for public/hybrid cloud.

## Desjardins Technology Group (GTD)                           2010–2017
*Network & Security Architect*

- Security architecture and engineering advisor across feasibility, design, and implementation phases.
- Delivered consulting in systems, networking, cryptography, and governance.
- Performed risk analysis, standards alignment (ISO, PCI DSS, NIST), and third-party assessments.
- Supported IAM foundation capabilities (SSO, MFA, IAM, AD) and endpoint/server migrations.
- Improved incident response processes and secured virtual banking services.

**Selected outcomes:** IAM audit program, virtual banking system security, business process automation.

## Projects & Talks

**Cloud Security Panel (NorthSec Application Security Conference)**          2021
Panel interview and talk focused on secure cloud adoption, DevSecOps, and governance.

**Strava Advanced Analytics**                                               2021
Built analytics pipeline with Google BigQuery and Python; replicated architecture in AWS using EventBridge, Lambda, S3, and Secrets Manager.

**Google Containerization Workforce**                                       2020
Supported transformation of Google Forseti from IaaS security modules to a containerized, Terraform-deployed architecture.

**Cloud Security Principles in an Agile World**                             2019
Presented security-as-code patterns to support development and business teams.

**From Narrow Intelligence to Super Intelligence**                          2018
Talk on ANI, machine learning, deep learning, and path toward AGI/ASI.

## Education

**Massachusetts Institute of Technology (MIT)**
Master classes in business management, artificial intelligence, and cryptography.

**Université Laval**
Bachelor of Applied Science (B.A.Sc.), cooperative initiative.
Specialization in security and artificial intelligence.

**Collège Édouard Montpetit**
Technical degree (DEC) in network management and security.

## Certifications & Training

- 2025 – Microsoft Solutions Partner Program
- 2022 – Microsoft Certified: Cybersecurity Architect Expert (SC-100)
- 2022 – Microsoft Certified: Azure Security Engineer Associate (AZ-500)
- 2021 – HashiCorp Certified: Vault Associate
- 2019 – HashiCorp Certified: Terraform Associate
- 2019 – Google Certified: GCP Professional Cloud Security Engineer
- 2017 – ISC2 Certified Cloud Security Professional (CCSP)
- 2016 – ISC2 Certified Information Systems Security Professional (CISSP)

**Hands-on training:** Terraform and Vault labs, Google Cloud Architecture/Big Data/ML, Cloud and DevSecOps programs (GitHub Lab, Pluralsight), NorthSec applied security workshops.

## Publications & Academic Work

- 2014 – Time Sync Protocol Attacks, Université Laval
- 2013 – Statistics and Behavior for User Analysis, Université Laval
- 2013 – Knowledge-based AI for Chemical Composite Discovery, Université Laval