

Mehdi Ougadi

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EDUCATION

- Master's in Computer Engineering – Cybersecurity**, Polytechnique Montreal January 2026 – Present
- Bachelor's in Software Engineering – Cloud Computing**, Polytechnique Montreal January 2022 – December 2025
- Achieved A+ grades in Cloud Computing and Python Programming courses
 - Specialized in cloud security architecture and secure infrastructure deployment

PROJECTS

Cloud SIEM Detection System | *Terraform, AWS, Elastic Stack, Python, MySQL* [View on Github](#) 

- Engineered cloud-native SIEM monitoring 3-tier web application architecture, detecting SQL injection, lateral movement and data exfiltration across client, server and database layers
- Automated AWS infrastructure deployment using Terraform IaC, implementing custom detection rules mapped to MITRE ATT&CK framework for real-time security correlation and alerting

MySQL Cluster Security Cloud Patterns | *Python, AWS, MySQL, Flask* [View on Youtube](#) 

- Architected distributed MySQL cluster on AWS implementing Gatekeeper and Proxy design patterns with IaC automation
- Engineered master-subordinate replication architecture with 3 query routing strategies, achieving < 1.5% variance in response times across 1000+ benchmark requests

AWS Cloud Security Infrastructure | *Python, AWS, OSSEC, Docker, Elasticsearch* [View on Github](#) 

- Designed and deployed secure AWS infrastructure with VPC network segmentation, security groups, NACLs and VPC Flow Logs following CSA compliance standards
- Implemented comprehensive security hardening for EC2 instances including Ubuntu hardening, OSSEC agents, Docker vulnerability scanning with Trivy, and CloudWatch/CloudTrail monitoring

FarmerFlow - Polyhacks 2025 Winner | *React Native, Expo, Firebase* [View on DevPost](#) 

- Won first place in a hackathon with over **400+ participants** by creating an intuitive interface that enhances farming decision-making through real-time data analysis
- Developed a scalable ML pipeline processing 50+ agricultural data points per user to generate customized crop recommendations, irrigation schedules and yield predictions

WORK EXPERIENCE

Software Engineer, Oriso (*Contract Part-Time*) August 2025 – December 2025

- Developed AI-powered resource-sharing platform for **3000+ clients** using Python FastAPI microservices
- Architected scalable backend infrastructure with **MongoDB** database management
- Increased deployment speed **by 66%** by implementing automated infrastructure provisioning and CI/CD pipelines

Software Engineer Intern, TINK Profitabilite Numerique inc May 2024 – November 2024

- Engineered production web applications serving **1M+ users** for major Quebec clients including Desjardins, Via Rail, REM and Exo
- Improved team efficiency by establishing standardized coding practices and design methodologies for cross-functional collaboration
- Accelerated development cycles **by 30%** through creation of reusable component libraries and establishment of coding standards

CERTIFICATIONS

AWS Certified Cloud Practitioner – CLF-C02, Amazon Web Services [Verify](#)

RELEVANT SKILLS

Programming & Scripting: Python, Bash/Shell, JavaScript, TypeScript, Java, C, C++, C#, HTML5, CSS3

Cloud & Security Tools: AWS (EC2, VPC, CloudTrail, CloudWatch), Azure, Terraform, Elastic Stack, OSSEC, Docker, Linux

Security Frameworks: NIST, CIS Controls, ISO 27001/27002, MITRE ATT&CK, CSA Compliance, Incident Response

Databases & DevOps: MySQL, PostgreSQL, MongoDB, Redis, Git, CI/CD, Kubernetes, Agile/Scrum, Flask, Node.js