

Mehdi Ougadi

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SELECTED WORK EXPERIENCE

DevOps Engineer, Oriso (Contract Part-Time) August 2025 – Present

- Architected CI/CD pipelines using GitHub Actions for ORE (Oriso Resource Engine) serving **3000+ clients**, integrating automated SAST, DAST and SonarQube security analysis
- Accelerated deployment velocity by 66% through Infrastructure as Code (IaC) automation with Boto3, orchestrating multi-environment provisioning of containerized services
- Developed a predictive AI model using XGBoost and Scikit-learn to forecast a distributor availability patterns, optimizing resource allocation and matching algorithms

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

- Enhanced user experience for **1M+ of users** across major Quebec transportation and financial services clients including Desjardins, Via Rail, REM and Exo
- Presented design methodology and workflow processes to entire development department, establishing standardized practices for cross-functional collaboration
- Created comprehensive design systems and interactive prototypes that reduced development time and ensured consistent visual identity across multiple high-traffic applications

SELECTED PROJECTS

MySQL Cluster - Cloud Design Patterns | AWS, Boto3, MySQL, Flask, Python [View on Youtube](#)

- Architected a distributed MySQL database cluster implementing Gatekeeper and Proxy design patterns with master-subordinate replication across 3 nodes, achieving 850+ TPS throughput
- Developed automated Infrastructure-as-Code deployment using Boto3 for VPC, subnets, NAT Gateway and security groups with defense-in-depth network isolation
- Implemented three intelligent query routing strategies (Direct Hit, Random, Customized) with API key authentication and SQL injection prevention, processing 1000+ requests with sub-100ms response times

AWS Cloud Security | AWS, Boto3, Docker Scan, Trivy [View on github](#)

- Built secure AWS cloud infrastructure with VPC network segmentation, security groups and VPC Flow Logs for comprehensive monitoring
- Implemented EC2 hardening on Ubuntu and Windows instances using konstruktoid standards, OSSEC agents, Docker Scan and Trivy for vulnerability detection
- Designed CSA-compliant architecture with CloudWatch and CloudTrail monitoring, integrating Elasticsearch for centralized log analysis and security event tracking

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

- Won first place against **400+ participants** by developing an ML-powered agricultural platform that processes 50+ data points per user to generate real-time crop recommendations and yield predictions
- Built a scalable data pipeline integrating weather APIs, soil sensors and historical farming data to deliver personalized irrigation schedules and optimize farming decision-making

RELEVANT SKILLS

AWS & Cloud Infrastructure: AWS Lambda, ECS, DynamoDB, API Gateway, S3, EC2, IAM, Security Groups, ECR

Programming & Backend Development: TypeScript, JavaScript, Node.js, Python, SQL, RESTful APIs

Infrastructure as Code & DevOps: AWS CDK, Terraform, Docker, CI/CD Pipelines, Automated Deployment

Databases & Storage: DynamoDB, DocumentDB, PostgreSQL, MongoDB, Redis, Database Design

Tools & Practices: Git, GitHub Actions, Agile/Scrum, Security Best Practices, System Architecture

CERTIFICATIONS

AWS Certified Cloud Practitioner, Amazon Web Services [Verify](#)

EDUCATION

Bachelor's in Software Engineering, DevOps oriented, Polytechnique Montreal January 2022 – December 2025

Diploma of Pure and Applied Sciences, Collège de Bois-de-Boulogne September 2017 – May 2019