Mohamed Douaré

DevOps & AI Platform Lead: multi-agent systems and agentic workflows

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PROFILE

I lead DevOps, security and AI platform work, and I build AI-native systems that organizations can trust in production. Over nine years, I have gone from software engineering to directing IT, where I manage DevOps, development and AI teams, and to leading DevOps and AI in Ottawa. Azure, AWS, Google Cloud and Microsoft 365, with Terraform, Ansible and CI/CD underneath everything. My focus: multi-agent systems and agentic workflows that are constrained by design; I orchestrate parallel coding agents across 17 repositories, from research to a reviewed pull request. Security and compliance are part of the design from day one: Law 25, PIPEDA and Ontario's Anti-Racism Act.

EXPERIENCE

May 2025 - present

DevOps & AI Platform Lead

Centre de leadership et d'évaluation (CLÉ), Ottawa

- Lead DevOps, security and AI across the organization; build multi-agent systems and agentic workflows.
- Own the AI usage policy and the security program.

May 2021 - Apr. 2025

DevOps & Software Engineer

CLÉ, Ottawa

- Delivered Gestra, a containerised data platform (12 Prefect flows, dbt, PostgreSQL, Ansible, Power BI) deployed at several clients; secure data pipelines across internal systems and client environments, through tunnels and bastions.
- Designed and built SGDI, a secure identity-census platform used by 13 Ontario school boards to meet the Anti-Racism Act, 2017 (mandatory collection of identity-based and race-based data by January 1, 2023): CI/CD, IaC, data pipelines, user management.
- Designed server update and patch management protocols, with CI/CD and infrastructure as code; internal data-pipeline generator.

Sept. 2023 - present

Director of Information Technology

CIAUD Canada (multi-country humanitarian non-profit), Gatineau

- Lead all IT operations and the internal DevOps, development and AI teams; short- and long-term IT roadmaps.
- Directed the creation of AI agents, websites and internal systems, including Aria, a bilingual integrated management platform: 18 modules (HR, contracts, leave, projects, audits, tickets, recruitment, tenders, inventory, e-signature), 13 RBAC roles, 6 releases shipped; Azure Front Door + WAF, App Service, Cosmos DB, Service Bus, Terraform, Azure Pipelines.

Jan. 2021 - Aug. 2023

Cloud & Systems Engineer

CIAUD Canada, Gatineau

- Managed Azure and Microsoft 365 infrastructure as code with Terraform and Ansible; Entra ID, user-lifecycle and SharePoint automation through Microsoft Graph (Python); automated reporting and data workflows with early AI and analytics tools.

Sept. 2019 - Dec. 2020

DevOps Engineer

CIAUD Canada, Gatineau

- Set up CI/CD pipelines and automated deployments.

Dec. 2024 - Feb. 2026

CTO & Co-Founder

Ciney Labs Inc., Gatineau

- Architected constrained LLM products for regulated sectors, including Pilume, a pharmacy scheduling pilot with human approval; built an agentic delivery pipeline: parallel coding agents, isolated worktrees and spec-driven development across 17 repositories.

Jan. 2019 - Mar. 2022

Founder & Lead Developer

Gulpes, Canada

- Digital product studio; built the flagship personal-development app during Covid-19 (Flutter, iOS and Android), still live; later launched Embertree, a private, encrypted family-tree platform.

Oct. 2017 - July 2019

Software Engineer

Office National de l'Électricité et de l'Eau Potable (ONEE), Morocco

HIGHLIGHTS

AI Product Factory: agentic delivery pipeline

- A 24/7 server driven from a phone: market discovery, requirements, design, test-driven build, review/fix loops, one-command PRs across 17 GitHub and Azure DevOps repositories; per-repository policy (dev branch, mandatory review, manual production promotion). Corporate website shipped in 8 days, the Pilume platform (5 applications) in 10 weeks.
- Why a human only at the gates: keep the agents' cadence without giving up accountability for what reaches production.

Aria: funding-opportunities engine

- Call for proposals → funder template: ingestion (PDF, DOCX, XLSX), structured extraction, template reading at OOXML and cell level, drafting inside the funder's own files, human review. Anthropic SDK, Zod-validated outputs, prompt caching, cost per opportunity; a missing fact becomes a to-complete marker, never an invention.

Pilume: AI-proposed medication schedules

- Pilot for Quebec community pharmacies (pharmacist portal, desktop, patient web and mobile). The model proposes, a pure unit-tested verifier reports deviations without repairing them, the pharmacist decides; de-identified payload, approval enforced in the API, immutable audit log (Law 25, PIPEDA).

PRACTICES

- AI usage policy and security program; schema-validated structured outputs on every call; token and cost accounting per file; a tested verifier between the model and the human.
- Published agent harness (douare.dev/work): isolated worktree, no access to secrets or production data, merges to dev only, human approval of risky actions, stop on command. What I refuse to automate: promotion to production and validation of the business act.

SKILLS

AI and agents: Claude, GPT, Gemini, Grok APIs (structured outputs, prompt caching, PDF), multi-agent systems, Claude Code (skills, subagents), Model Context Protocol, cost governance

Cloud: Azure (App Service, Front Door + WAF, Cosmos DB, Service Bus, Key Vault, Entra ID), AWS, Google Cloud, Microsoft 365

IaC and CI/CD: Terraform, Ansible, Docker and Compose, Kubernetes, Azure Pipelines, GitHub Actions, Git, OIDC, Linux, patch management, mobile releases

Product and data: TypeScript, Python; Next.js, NestJS, Hono, Flutter, Expo; PostgreSQL, MongoDB / Cosmos DB, MSSQL; Prefect, dbt, Power BI

Security: OAuth2 / OIDC, MFA, RBAC, envelope encryption, audit logs, ISO 27001, Law 25 / PIPEDA, Anti-Racism Act, 2017

EDUCATION

- Master of Science in Information Technology, Université du Québec en Outaouais, 2019 - 2021 (thesis on SQL query optimisation, grade Excellent).
- State Engineer in Mathematical and Computer Engineering, Faculty of Sciences and Techniques of Mohammedia (Université Hassan II), Morocco, 2015 - 2018.
- DEUG in Applied Mathematics, Faculty of Sciences of Oujda, Morocco, 2013 - 2015.