FAYCAL RAGHIBI

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SUMMARY

Freelance AI engineer building LLM agents with MCP, computer vision models and data pipelines that hold up in production. Contributed MCP support and critical runtime fixes to Wayflow, the open-source runtime for Oracle's Agent Spec, and automated a scientific imaging workflow end to end at CERI MP. Ships tested, documented systems in Python, TypeScript, Go and Java.

SKILLS

Languages: Python, TypeScript, Java, Go, C++, SQL, Bash **AI & Agents:** MCP, LLM agent runtimes, Agent Spec / Wayflow, LangChain, LangGraph, RAG, PyTorch **Engineering:** TDD, pytest, strict static typing, debugging, refactoring, performance tuning, code review **Infrastructure:** Docker, Git, GitHub Actions, GitLab CI, Jenkins, Linux, SLURM / HPC, FastAPI, React **Spoken:** English (professional), French (professional), Japanese (beginner)

EXPERIENCE

Research Software Engineer Intern May 2026 - Sept 2026 CERI MP, IMT Nord Europe *Dunkerque, France*

- Built the reproducible benchmark harness comparing 4 model architectures over 36 runs, 3 seeds each, fixed epoch budget and one shared package imported by every model, so architecture stayed the only variable.
- Hardened determinism across the protocol, cutting run-to-run dispersion 20 to 40x, and caught two silent defects that had invalidated a full training period: an argument silently ignored by a library injecting 15x too much noise, and a non-uniform annotation width.
- Shipped a CPU-only geometry library (Hungarian matching, integer programming, smoothing splines) at 0.59 s median per image, with 387 tests and 94% line coverage, then packaged the chain as a desktop application with SHA-256 manifests verified by test.

AI Integration Engineer Intern July 2025 - Sept 2025 Oracle *Casablanca, Morocco*

- Contributed MCP support to Wayflow, the open-source runtime implementing Agent Spec, enabling agent orchestration over local LLMs and custom tool endpoints.
- Fixed 5 critical runtime defects affecting agent execution and inference reliability, and refactored the Oracle Database integration modules to make data-driven workflows reproducible.
- Debugged agent deployments across product teams: diagnosed inference-pipeline failures, improved output routing, stabilized log-source interactions for a ticket triage agent, and maintained the Sphinx documentation on runtime architecture and execution semantics.

DevOps and Integration Engineer Intern July 2024 - Aug 2024 Arrow Electronics *Casablanca, Morocco*

- Stood up the deployment environment for a Spring Boot microservices order system (Maven, Kafka topics, per-service MySQL schemas, Docker Compose with healthchecks), and wrote Postman collections covering REST endpoints and cross-service scenarios, wired into Jenkins for per-commit execution.

PROJECTS

Joshu *(Python, MCP, FastAPI, ChromaDB, GitHub Actions).* CLI agent platform orchestrating local and remote LLMs with secure tool calling over MCP servers, semantic memory and multi-turn context, with CI running non-regression tests on every change.

Dezain *(TypeScript, Python, LangChain, Pydantic).* Converts Figma design schemas into React and TypeScript components through typed intermediate representations, with automated TypeScript AST validation rejecting output that does not compile.

InfuraSaito *(Go, Python, Prometheus, Docker).* Go microservices forecasting cloud infrastructure load from live Prometheus metrics, containerized and tested automatically on GitHub Actions.

EDUCATION

Engineer's Degree in Data Science and Responsible Artificial Intelligence, IMT Nord Europe Sept. 2023 - Sept. 2026
Preparatory Classes for the French Grandes Écoles (CPGE), Lycée Moulay Idriss Sept 2021 - Apr 2023

CERTIFICATIONS

OCI 2024 Certified AI Foundations Associate, Oracle
OCI 2025 Certified Foundations Associate, Oracle
Building Generative AI Skills for Developers
Deep Learning Specialization, Coursera
Machine Learning Specialization, Coursera
DevOps Foundations