

Mohamed El-Amin Bouchareb

Cloud & AI Platform Engineer

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Available from September 15, 2026 (completing mandatory military service) · Open to remote-first or hybrid roles globally

SUMMARY

Computer Scientist moving into Cloud & AI Platform Engineering. IEEE-published in NLP, with a strong foundation in Linux, Python, and FastAPI and hands-on experience building cloud-native systems with Docker, Kubernetes, Terraform, and AWS. Combines a research background in Transformers and LLMs with infrastructure skills to focus on deploying, scaling, and serving AI in production.

TECHNICAL SKILLS

Languages: Python (advanced), Bash (advanced), Java, JavaScript, Go (learning)

Cloud & DevOps: AWS, Docker, Docker Compose, Kubernetes, Terraform, GitHub Actions, Prometheus, Grafana

Backend: FastAPI, Pydantic, SQLAlchemy, Alembic, pytest, REST API design

Databases: PostgreSQL, MongoDB, Redis, MySQL

AI / ML: Transformers & LLMs, NLP, Machine Learning, Deep Learning; MLOps & LLM serving (learning)

Practices: Clean Architecture, 12-Factor, OWASP Top 10, CI/CD, microservices, observability, Git workflow

PROJECTS

TaskFlow — Team Task Manager with RBAC (*in progress*) 2026 – present
github.com/el-amin-dev/taskflow

- Production-grade FastAPI backend with role-based access control, built on Clean Architecture (api / services / domain / infra / core).
- OWASP Top 10 applied and tested: argon2id hashing, constant-time login (measured ~1.04 timing ratio), no email enumeration, algorithm-confusion-safe JWT.
- 12-Factor design: env-driven config, structured JSON logging, liveness/readiness probes for orchestrator-ready deployment.
- Dockerized stack (FastAPI + PostgreSQL + Redis), non-root runtime, async SQLAlchemy with Alembic migrations; disciplined Issue → branch → PR → squash-merge workflow.

Fake News Detection in Algerian Dialect 2024 – 2025

- Master's thesis: fine-tuned Transformers and LLMs to detect fake news in Algerian Darija; published at IEEE RIF 2025 (thesis grade 18.5/20).
- Built a custom Arabic/Darija dataset for a low-resource NLP setting and evaluated multiple pre-trained models on domain-specific data.

LLM Inference Gateway (*planned*) 2026

- FastAPI gateway in front of LLM inference endpoints — authentication, rate limiting, request logging, and Prometheus metrics; designed for Kubernetes / AWS EKS with Terraform.

EXPERIENCE

Computer Science Tutor — Freelance, Zeralda, Algeria Sep 2025 – Apr 2026

- Mentored undergraduate students one-on-one and in small groups on programming fundamentals and full-stack web development.
- Coached students on full-stack engineering with FastAPI, SvelteKit, PostgreSQL, and Docker, and on Git-based workflows and containerization.

EDUCATION

Master's — Data Engineering & Web Technology 2023 – 2025
Université Ferhat Abbas Sétif 1 (UFAS1), Algeria — Thesis: 18.5/20; IEEE RIF 2025 publication

Licence — Computer Science 2018 – 2023
Université Ferhat Abbas Sétif 1 (UFAS1), Algeria — Final project: 17.5/20 (Java, JavaFX)

PUBLICATION

Sellami M., Arrar D., Dekkar R. N. E., **Bouchareb M. E.**, Kamel N. "Fine-Tuning Transformers and LLMs for Fake News Detection in Algerian Dialect." IEEE Int. Conf. on Research in Computing (RIF 2025). [ResearchGate](https://www.researchgate.net/publication/371111111)

CURRENTLY LEARNING & LANGUAGES

In progress: AWS Solutions Architect Associate (target 2026), Kubernetes (production / CKAD), Terraform

Languages: Arabic (native), English (intermediate, B1), French (beginner, A2)