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EDUCATION

University of Science and Technology Houari Boumediene (USTHB) Algiers, Algeria
Engineering Diploma in Computer Science (Specialization: Artificial Intelligence) Oct. 2023 – Present
Current Year: 3rd Year (Junior)
Relevant Coursework: Algorithms, Machine Learning, Operating Systems, Software Engineering.

EXPERIENCE

Micro Club USTHB Algiers, Algeria
Active Member Oct. 2023 – Present

- Competed in the ideathon where we presented a medically automated clinic concept.
- Competed in the internal BuildIT Hackathon, applying rapid prototyping skills to deliver winning AI solutions.

PROJECTS

Mecanic-IA: Agentic RAG System | *Python, FastAPI, Llama 3.1, ChromaDB*

- **Award:** 2nd Place Winner at BuildIT Hackathon 2025.
- Collaborated with a team of 5, taking full ownership of architecting and implementing the entire AI service.
- Built an intelligent Agentic RAG system for automotive repair manuals, utilizing a 3-Stage Retrieval Pipeline (Hybrid Search + Reranking) to ensure high accuracy and relevance.

Riglii (Commercial Platform) | *Next.js, Full Stack Development, DevOps*

- Collaborated within a team of 4 to design, build, and launch a Minimum Viable Product (MVP), live at www.riglii.com.
- Translated complex product requirements into a responsive Next.js application, integrating advanced SEO strategies to maximize organic traffic and visibility.
- Managed the complete DevOps lifecycle and deployment pipeline, ensuring 100% uptime during the launch.

ExamTrack | *Django, React (TypeScript), MySQL*

- Led a team of 6 in a major academic project to build a Full Stack exam management system.
- Presented the final prototype to university staff and lecturers, receiving approval for potential departmental adoption.
- Designed robust REST APIs using Django with JWT authentication, handling secure data exchange.
- Automated conflict detection for proctor scheduling, drastically reducing administrative planning time.

Mini-Transformer | *Python, PyTorch*

[Link](#)

- Implemented a GPT-style Transformer architecture from scratch to understand the inner workings of Large Language Models (LLMs).
- Built core components manually including Multi-Head Self-Attention mechanisms, Layer Normalization, and Feed-Forward networks.
- Trained the model on character-level datasets to demonstrate sequence generation capabilities and loss convergence.

CERTIFICATIONS

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- **Machine Learning Specialization (DeepLearning.AI)** - Supervised Learning, Advanced Learning Algorithms, Unsupervised Learning, Recommenders, Reinforcement Learning.

TECHNICAL SKILLS

Programming Languages:	Java, C, Python, C#, Go, JavaScript, TypeScript, MySQL, PostgreSQL
Web Development:	Full Stack (Next.js, Vite, Django, React, Node.js), REST APIs
Machine Learning:	Supervised/Unsupervised Learning, Reinforcement Learning, RAG, Vector DBs
C Programming:	Memory Management, File Management, Bit Manipulation, POSIX Standards
Java Ecosystem:	Object-Oriented Programming (OOP), App Development (JavaFX/Swing)
DevOps & Tools:	Git, Website Deployment, Docker