Mohamed Anis Ben Azza

Algiers, Algeria ● benazzaanis783@gmail.com

LinkedIn Profile ● GitHub: nisbenz

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. 2025 – 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.

System File Manager | C, POSIX System Calls

- Co-developed a high-performance command-line file manager in a team of 7, focusing on Memory Management.
- Implemented low-level File Management operations (copy, move, traversal) using direct system calls.
- Optimized resource usage and process execution speed through precise pointer arithmetic and bit manipulation.

CERTIFICATIONS

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, NoSQL.
- **Web Development:** Full Stack (Next.js, Vite, Django, React, Node.js), REST APIs.
- **Machine Learning:** Supervised/Unsupervised Learning, Reinforcement Learning, RAG, Vector Databases.
- **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.