BAHLAOUI AHMED

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SUMMARY

AI & Data Science engineering student with hands-on experience building backend systems and real-time simulations using C++ and Python. Strong foundation in algorithms, data structures, and machine learning fundamentals. Passionate about designing scalable systems and production-ready AI solutions.

EDUCATION

Ecole Nationale des Arts et Métiers   **Rabat, Morocco**

Engineering Degree, AI & Data Science   Sep 2023 – Jun 2028

- Coursework: Algorithms, Data Structures, Machine Learning, Cybersecurity, Computer Networks

EXPERIENCE

IT Support Assistant   **Jan 2024 – May 2024**

ENSAM IT Department   *Rabat, Morocco*

- Resolved 50+ hardware and software support tickets monthly, reducing average issue resolution time through structured troubleshooting workflows.
- Maintained internal databases and updated network configurations, improving system reliability and minimizing recurring connectivity issues.
- Assisted in diagnosing system vulnerabilities and implementing security best practices for campus IT infrastructure.

PROJECTS

Physics Particle Simulator | C++ | 2025

- Developed a real-time particle simulation engine in C++, implementing numerical physics models to simulate and render 1,000+ particles concurrently.
- Optimized computational performance by refining memory management and algorithm efficiency.

Shortify – Scalable URL Shortener | Vercel, Redis | 2025

- Engineered a scalable URL shortener using Redis caching and serverless deployment on Vercel.
- Reduced URL retrieval latency through optimized key-value storage architecture.
- Implemented RESTful endpoints for efficient link generation and redirection.

TECHNICAL SKILLS

- **Programming:** Python, C++, JavaScript, TypeScript, SQL, Bash, Java
- **Machine Learning:** scikit-learn, TensorFlow, PyTorch, NumPy, Pandas
- **DevOps & Systems:** Docker, Kubernetes, Git
- **Networking & Security:** Wireshark

CERTIFICATIONS

- Supervised Machine Learning: Regression and Classification – Coursera
- Statistics Foundations – Meta (Sep 2024)
- Introduction to Data Analytics – Meta (Aug 2024)
- Introduction to Data Management – Meta (Aug 2024)

LANGUAGES

- Arabic (Native)
- French (Fluent)
- English (Fluent)