



Mehdi BENFREDJ

Software Engineer | BNP Paribas CIB

CONTACTS

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PERSONAL PROJECTS

Spring Boot:

- [Delivery system back-end](#)
- [Invoice management](#)

C++:

- [Low latency multithreading email analysis](#)

ML/Python:

- [Cross-road automation](#)

SUMMARY

Highly skilled software engineer adept at leveraging my expertise to create robust back-end solutions. Currently doing my apprenticeship at BNP Paribas CIB in Paris, where I help my team to develop low-latency applications for Global Markets Access. Graduating from UTBM engineering school in August 2024 with a specialization in AI and ML in my final year. Perfectly trilingual (Arabic, English C1+, French C2) with some basic knowledge of German.

EXPERIENCE

Apprentice Software Engineer

BNP Paribas CIB

November 2022 - August 2024 (end of contract)

I focus on creating robust, low-latency applications to ensure seamless trader access to global financial markets. With emphasis on regulatory compliance and data integrity.

Some of my achievements:

- Linked global server instances for optimal performance.
- Implemented regulatory checks for pre-order processes.
- Streamlined trader enrollment workflow.
- Managed dependency packages for stability.

Apprentice Software Engineer

General Electric

September 2021 - September 2022

- Analyze user requirements and design software solutions.
- Database modeling.
- Design various user interfaces.
- Develop back-end algorithms and services.
- Conduct testing phases, synthesize client feedback, and implement necessary fixes.

SKILLS & EXPERTISE

- **Backend:** Java (Spring), C++, Python, NodeJS
- **Frontend:** Angular, React
- Relational & Non-relational **DBs**
- **Version control** systems (eg. git)
- **Testing:** JUnit, Postman (APIs)
- **DevOps & Build tools:** Docker, Jenkins, ElasticSearch, SonarLint, Maven
- Machine learning: Scikit-learn, TensorFlow

EDUCATION

UTBM Engineering School

Computer Science Engineer

Belfort, France 2021 | 2024

Subjects:

- Advanced software development
- Networks & security

Final year specialization:

- Artificial intelligence & machine learning

Aix-Marseille Université

Marseille, France

2019 | 2021

Bachelor in Computer Science

Subjects:

- Algorithms & Data structures
- Relational databases
- Computer architecture & automates