HAMIDOU DIALLO

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PROFILE

2nd year student at Grenoble INP-ENSIMAG, specializing in Financial Engineering. Seeking an internship in quantitative research.

EDUCATION

Engineering Degree — Financial Engineering 2024 - 2026
Grenoble INP-ENSIMAG
Main courses: Financial Markets, Numerical Methods, Code Optimization, Stochastic calculus

Bachelor's in Mathematics 2022 - 2024
Sorbonne Université
With Honors — Real Analysis, Probability, Linear Algebra

PROFESSIONAL EXPERIENCE

Research Intern — Stochastic Network Dynamics Feb 2025 - Jul 2025
INRIA
- Mathematical modeling of complex networks
- Python simulation development

ACADEMIC PROJECTS

Java Compiler with Code Optimization 1 month
- Design of a compiler for Java subset (Deca)
- Implementation of low-level code optimizer
- Static analysis and redundant operation reduction

Bond Pricer (Java) Personal Project
- Bootstrap method implementation

HACKATHONS

Morgan Stanley — Algorithmic Trading Nov 2024
- Market-making strategy development
- Tick data analysis with Python/Pandas

Margo — Bond Pricing Challenge Jan 2025
- Yield curve construction using bootstrap
- Results visualization with Matplotlib

TECHNICAL SKILLS

Languages	C/C++, Java, Python, SQL
Tools	Git, Linux, MATLAB, LaTeX
Concepts	Algorithms, Data Structures, Code Optimization
Finance	Bond Pricing, Bootstrap Method

CERTIFICATIONS

IBM: Basics of Quantum Information	2025
HackerRank Gold (Java)	2024
Coursera: Algorithmic Trading & Finance	2024

LANGUAGES

French (Native) — English (TOEIC 890 - B2) — Spanish (Basic)