



Fatalmoudou KONE

*Looking for a 6-month internship in Data Science / AI / Big Data, starting March 2026, open to Luxembourg, Belgium and Switzerland*

✉ fatalmoudoukone@gmail.com

☎ +33 7 84 99 25 79

📧 fatalmoudou-koné

🐙 github.com

## Technical Skills

- **Big Data:** Kafka, Spark, Pandas
- **Visualization:** Seaborn, Matplotlib
- **Languages:** Python, Java, C, SQL, R
- **Tools:** Linux, VSCode, Git, LaTeX, Docker
- **ML & AI:** scikit-learn, PyTorch, Hugging Face Transformers, NLP, ETL

## Certifications & Soft Skills

- **IBM – Data Engineering (ongoing):** Data analysis, Rigor, Problem-solving
- **Microsoft – AI & ML Engineering (ongoing):** Self-learning, Analytical thinking
- **Cisco Network Academy – Intro to Data Science:** Scientific curiosity, Information synthesis
- **Project Management MOOC:** Organization, Time management
- **Pix – Digital Risk Prevention:** Critical thinking, Digital vigilance
- **Red Cross – First Aid:** Composure under pressure, Initiative
- **INRS MOOC – Health & Safety:** Attention to detail, Responsibility

## Languages

- French (Native)
- English (TOEIC 810 – B2+)
- Mandarin (Elementary)
- Bambara (Native)

## Interests

- Cooking
- Puzzles and logic games
- Anime and manga

## Education

**TELECOM Nancy** (2023–2026)

Master's Degree in Computer Science

Specialization: AI & Big Data

Courses: Machine Learning, Deep Learning, Big Data Technologies, Data Visualization

**University of Lorraine – Nancy** (2025–2026)

Master's in Mathematics and Applications

Specialization: Mathematical Engineering for Data Science

Courses: Statistical Learning, Optimization, Stochastic Processes, Financial Mathematics.

**Paris 8 University** (2025–2026)

Bachelor's in Computer Science, Minor: Psychology

Courses: Data Mining, Interpretation and Compilation, Verbal Data Analysis

**University of Grenoble Alpes – UGA** (2021–2023)

Bachelor's in Mathematics & Computer Science – 1st–2nd year

Courses: Functional and Imperative Programming, Numerical Analysis, Linear Algebra

## Professional Experience

**AREAL – RAG Optimization** (Sept 2025–present)

Optimizing a RAG-based chatbot for knowledge access, improving retriever/generator efficiency.

**INRIA – Nancy** (Jun–Aug 2025)

Processed and structured a **10TB robotics dataset**; developed facial recognition & anonymization tools.

**CRAN – University of Lorraine** (Feb–May 2025)

Enhanced a 6-minute walking test using Madgwick filter: **+20% accuracy in patient trajectory**.

**Télécom Nancy Services – IT Systems Director** (2023–2024)

Managed IT systems for **15 members** and updated website (content, logos, branding), improving readability and accessibility.

## Additional Experience

**KOSY Appart'Hôtel – Operations Intern** (Jul 2024)

Customer relations, operational coordination; **improved customer satisfaction**.

**Afev – Volunteer** (2023–2024)

Tutored a **student**, improving average grades by **+2 points**.

**University of Grenoble Alpes – Math Tutor** (Sept–Dec 2022)

Led tutorials for **20 students**, with a final pass rate of **60%**.

## Projects

- **Fraud Detection System:** Kafka + Spark pipeline .
- **Pacman AI Agent:** Decision-making with A\*, Minimax, Expectimax
- **Visualization Dashboard:** Built interactive dashboards (Pandas, Matplotlib)
- **Biomedical Data Tool:** Explored disease-treatment relations with medical datasets
- **Mini-Python Compiler:** Implemented in Java