

Mohamed Touhami HADJ

Software engineer

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📍 Paris, France

🔗 hadjmohamed.github.io

🧠 Skills

Python (Pandas, Numpy, Flask) • **C++** • **C** • **Data structures&Algorithms** • **Databases** (SQL, Chroma) • **Git** • **Complex problem solving** • **APIs Implementation** • **Clear and adaptive talk**

📁 Professional Experience

Safety Data Engineer, ArianeGroup ✉

2022 – 2024

Paris, France

- Implemented **Python** tool based on large amount of experimental data able to predict launchers explosions consequences and to automatically write reports.
- Data extracted from a physical workbook.
- Raised productivity up to 60%. Introduced to the whole flight department.

Software development for Centre for Propulsion Engineering,
Cranfield University

2022 May – 2022 Sep

Cranfield, England

- Code improvement to evaluate the performance of a compressor
- Optimisation of Python and Fortran source code
- Implementation of sub-idle loss models into an in-house low-order method

🎓 Education

ENSTA Paris, Polytechnic Institute of Paris,

2024 Sep

MSc, Information and Complex Systems - Apprenticeship ✉

Paris, France

- Top Tier Graduate schools in France.
- IT : Database / Programming & Algorithmic optimization / Different projects in Python, C++, C, SQL, Fortran and Matlab
- Mathematics: Statistical modelling, estimators, differentiable nonlinear optimisation, numerical algorithms for quadratic
- 3.7 GPA

Lycée Saint-Louis, Classe préparatoire PCSI

2019 – 2021

Paris, France

- Undergraduate intensive two-year study course preparing for the competitive entrance examinations to the French 'Grandes Écoles' (the top French and highly-selective institutions) with intensive courses in mathematics, physics, chemistry and IT

🌐 Miscellaneous

Languages — French (mother tongue) | English (Linguaskill +180) | Arabic (Dual Tunisian Nationality) •

Hobbies — IT projects | Aeronautics | Volunteer at Hopital Robert Debré | New technologies | Motorsports