Raihane SIDHOUM

raihane.sidhoum@hec.edu | +33 753522876
raihaen.github.io

Education

2024 – 2027	**HEC Paris**	**Paris, France**
	Grande Ecole Programme – 3.77 GPA	
	• Key subjects: Financial Markets, Monetary Economics and Sovereign debt, Corporate Structuring, Financial Economics, Python	
2021 – 2024	**Ecole Nationale Polytechnique – ENP**	**Algiers, Algeria**
	Grande Ecole Programme, Engineering	
	• Key subjects: Machine Learning, Probability, Statistics, Markov Chains, Mathematical and Statistical Modelling, Big Data, Object Oriented Programming	
2019 – 2021	**Ecole Nationale Polytechnique d'Oran – ENPO**	**Oran, Algeria**
	Preparatory Classes in Science and Technology	
	• Top 5% in the National Competition for access to Grandes Ecoles	
	• Key subjects: Analysis, Algebra, Physics, Computer Science, Differential Calculus	

Professional Experience

03/24 – 07/24	**SLB – Oil & Gaz Service Industry**	**Hassi Messaoud/Algiers, Algeria**
	Supply Chain and Data Science Intern	
05 months	• Collected data on the loading and unloading of vehicles (+60 operation) in the Domestic Logistics fleet.	
	• Analysed sources of delay (dwell time) and extracted their root causes	
	• Presented corrective actions and designed a digital solution architecture to ensure real-time monitoring of the effectiveness of the corrective actions	
	• Determined the optimal daily order for trucks to perform loading and unloading using various metaheuristics, with an objective function based on the total truck time simulated using Monte Carlo methods, projecting a 30% time gain	
01/24 – 02/24	**Kaoua Foods – Agri-food Industry**	**Algiers, Algeria**
	Dev Intern	
01 month	• Created a Python program to digitize the entry and exit of pallet flows between Stock and Production minimizing counting errors by 87%	
	• Integrated the program with the company's ERP (Odoo variant)	
04/23 – 06/23	**Biopharm – Pharmaceutical Industry**	**Algiers, Algeria**
	Supply Chain and Data Analyst Intern	
03 months	• Conducted a 5-criterion comparative study between the ERP used by the company and 6 alternatives to enhance the Information System environment	
	• Created a Python script semi-automating production scheduling using metaheuristics, reducing scheduling time by 76%	

Relevant Projects

2025	**Dynamic Volatility Graphing App - (Link)**
	• A Web App that calculates Implied Volatility, SABR Volatiliy (and its deviation from IV) as well as Dupire's local volatility - Real time graphing for any ticker. Created using Streamlit and Python.
2025	**Auto Scheduler using AI- (Link)**
	• A Claude wrapper with RAGs, allowing it to create OR-Tools scheduling programs based on the user's input databases, executed in the background and presented to the user in CSV format.
2025	**Minimalistic Note taking app - (Link)**
	• A minimalistic note-taking app built with Node.js, allowing users to browse, create, and edit notes in Markdown format with LaTeX support.

Extracurricular Activities

2018 - Current	**International Mathematical Olympiad**
	• Algeria's Contestant 3 at IMO 2018 and Contestant 2 at IMO 2019
	• Honourable Mention at the 2019 International Mathematical Olympiad
	• Organized several training camps online and in person with +100 participants
	• Coached the Algerian MO team during preparations for various competitions – Specialization : Combinatorics and Euclidean Geometry
2023	**Industrial Engineers Club (IEC) – *President***
	• Managed a team of +80 members, a network of +440 Alumni and +10 000$ in resources
	• Organized +10 events with professional, scientific and cultural focus - Key Events : Algeria Data Cup, IEC Business Game, TEDxENP
	• Coordinated a gathering of 70+ Alumni in Paris, France

Languages & IT Skills

Languages	**English :** Fluent (TOEIC 990) – **French :** Fluent (TCF C2) – Arabic : Native
IT Skills	**Python, C++, AppsScript, VBA, MS Office**
Interests	**Puzzlescript – Cooking – Catan – Boxing**