



Elyes Mahjoubi



Swiss



Rue David-Dufour 2, 1205
Geneva, Switzerland



+41 76 504 19 11



<https://github.com/EM51641>



elyesmahjoubi@hotmail.com

About me

I am a hardworking and ambitious individual passionate about computers and business. I worked at Amazon.com as a software developer in the Retail Business Seller department. I actively developed internal APIs for the business intelligence department by removing recurrent tasks and easing the work of associates and business analysts.

Skills

Clean Coding Principles

Asynchronous programming

Containerized development(Docker)

Test-driven development(TDD)

Domain-driven development(DDD)

Python

Typescript

SQL(PostgreSQL, MySQL)

CSS

HTML

Interests

OOP; Open Source Development; APIs Development; DevOps Pipelines; Code reviews; Learning new tech stacks; Statistics; Mathematics; Books; Cinema

Education

2019-2021, M.Sc. in Quantitative Finance at HEC Lausanne Lausanne, Switzerland
- Econometrics; Mathematics; Programming(Python, C++); Statistics. GPA: 4.95/6.0.
Master Thesis on the topic of "Rough Volatility Modeling" in option pricing validated with a grade of 6.0/6.0.

2016-2019, B.Sc. in Economics at HEC Lausanne Lausanne, Switzerland
- Econometrics; Mathematics; Programming(Matlab); Statistics. GPA: 4.7/6.0

Employment History

May 2022 - October 2023, Software Developer, Amazon Iasi, Romania
- Built and maintained a REST API in Python(Flask), extracting data from the OLAP Redshift Database, containing key attributes, such as the seller IDs, Brand IDs, etc., from a web page using Bootstrap 5. Based on these attributes, the client(The associates) could add sets of rules so that the back end automatically raise a ticket when a rule is broken for a specific set of attributes and can then be corrected as soon as possible. This project has an official headcount saving of 2, sparing the company more than 1M\$ a month.

- Implemented and maintained a REST API allowing to fill invoices to sellers instead of manually filling forms directly. Because this matter is sensitive, the associates responsible can commit every state temporarily into a local database and send the form to the Amazon vendor micro-service via a PySimpleGUI interface. The backend consisted of a PostgreSQL engine(v14), NestJS as the API framework and TypeORM. The project helped the company save 500K \$ given headcount savings calculations.

Aug-Sep 2019, Quantitative Analyst Intern, Biat Asset Management Tunis, Tunisia
- Proposed a more realistic metric to analyze the Conditional Value at Risk and deliver some well-known financial metrics using a famous research paper (McNeil and Frey, 2000). The projects are available at [<https://github.com/EM51641/VaRpy>, <https://github.com/EM51641/pyinsurance->]

Languages

French, Arabic Native
English Full proficiency (IELTS C1)

Extra-curricular activities

2018-2019, Debate Manager at Association Mosaique Lausanne, Switzerland
- Represented Luxembourg at the NATO committee in a crisis session between Sweden and Russia at the Prague MUN 2019.
- Represented Colombia at the World Health Organization committee at the Harvard World MUN 2018 in Panama city, where my goal was to convince as many as possible delegations to build a cooperation campaign among the committee members for the typical treatment of mental illnesses.

Personal Projects

Retail Stock Management API, <https://github.com/EM51641/RetailStockManagement>
- The RSM API micro-service allows sellers to transfer and manage inventory data. It streamlines the process of managing stocks by linking every stock transaction to it (Billing, Buying from merchants, etc.). It is possible to connect employees with different layers of permissions (Counting, Adding Products, Adding Subitems, etc.). The project runs on Typescript and uses NestJS, TypeORM and PostgreSQL.

LiveDisplaced Backend API, <https://github.com/EM51641/livedisplaced>
- This project runs on Flask, SQLAlchemy, and PostgreSQL, allowing us to visualize the influx of refugees, asylum seekers and people of concern globally to raise public awareness.