

Operation Research Internship - ModaResa

Intern role at international startup based out of LVMH accelerator at Station F in Paris + remote work possible



At Modaresa, we are building an innovative product which helps brands and buyers in the fashion industry to optimize their agendas and creates a standardized ecosystem for sustainable and optimized scheduling worldwide. You will work primarily with the CTO and the rest of the tech team in an inspiring work environment, where there is room for growth and constant learning for everyone.

Mission: You will be responsible for researching and developing the algorithm to optimize the agenda from the two sides of Modaresa customers, the brand team members and their clients (aka the buyers).

You will have to:

- Work with product team to understand the business needs
- Monitor technology to find the best solution to the given problem
- Design / evolve a model based on operational research defining the objective function and constraints
- Identify the data needed to optimize the agendas
- Solve a timetabling problem under geographic constraints
- Analyze the results and explain them

You will do this in close collaboration with the business and technical teams. You will help the CTO to drive the data architecture to allow the best scheduling optimization for our clients depending on multiple constraints and specific needs.

Skills/Experience 🧐

- Student in **Master 2 engineering school**, specializing in Operational Research.
- You have a strong knowledge of :
 - Modeling / constraint programming
 - Solvers (like PuLP or Choco)
- You are a reliable, trustworthy and inspiring team player never satisfied with the status quo
- You are known for your tenacity, high standards and respect towards fellow team members
- You truly thrive in a fast-paced, analytical but informal environment

Why us?

- Tackle a complex problem with real application in production with the help of experienced developers
- Unique opportunity to join a driven and passionate team on the mission to bring serious value through technology to an industry that needs it
- Great international colleagues - we speak in French, English, Italian and Norwegian
- Work from LVMH's accelerator at Station F in Paris or remote work possible + remote team retreats in cool places
- Salary: 700-1000€ depending on profile
- Potential hire post internship

Apply on Welcome To The Jungle at this link:

https://www.welcometothejungle.com/fr/companies/modaresa/jobs/operation-research-internship_paris?q=6b8c951b1f1075b718979df7ff3f9b0a&o=1491705

Example of Business Need

I am a buyer working with a team of 3 colleagues for Galeries Lafayette. I am in charge of Ready-to-Wear Women (Prêt-à-porter). My colleagues are in charge of Bags, Accessories, and Ready-to-Wear Men.

I need to see 50 brands in 3 days in Paris, 30 of those are brands I need to see with the rest of my team, because we are buying all categories and need to have a centralized buying/merchandising strategy.

Problems:

- I don't have all the info needed from all brands all at once, allowing me to set-up the ideal traveling plan at one time.
- I or one of my colleagues is not available for all the brand showroom openings days and hours.
- If a brand shows in multiple cities, I'd like to easily understand where we should visit it according to everyone's buying journey.
- I want to easily figure out where and how to ideally see a brand, in order to reduce too much back and forth traveling between neighborhoods. I want our unavailabilities to be taken into account in my optimisation itinerary.
- I want to know if a brand I am buying is showing, even though one of us is not available on those days.

So one of the goal of Modaresa is to offer this capacity:

As a buyer, when I book my appointment with a brand for me and my colleagues, the suggested slots take into account any other appointments I have booked with other brands through ModaResa and external appointments.

Want to know more about ModaResa? Read below:

Showroom sales campaigns are the most important time of apparel brands' financial year, where worldwide wholesale buyers are discovering apparel brands' collections and defining what will be sold to the end consumer 6 months later. However, the planning and scheduling is bottlenecked, archaic and time-consuming. Thousands of appointments are packed into a few days, across hundreds of stakeholders, and the coordination runs on excel sheets due to its complexity.

Why is it so complex? Not only do the buyers not know when they can come, but they don't know who they are meeting with either.

ModaResa streamlines B2B brands' showroom scheduling thanks to automated booking and clever data collection, all while taking into account unique business criteria - saving brands up to 117 working days yearly.

Tomorrow, we want to bring value to the full ecosystem, and enable buyers worldwide to have a more responsible and informed buying itinerary - both virtual and in-person.

We're therefore looking for our future CTO Stabilizer to take on the stimulating challenge of building and leading the implementation of a scalable next-gen version of ModaResa. Our product market fit is here, and now we need to scale and deploy a technically challenging roadmap.

At ModaResa we set common team targets, visualise them and achieve them by collaborative methods. We're passionate about our product and mission, and look for driven and benevolent people that are not afraid of challenges and set-backs.