



Junior Optimization Engineering Intern - January 2023

Company Description

BlaBlaCar is the world's leading carpooling platform, created with one dream in mind: leveraging technology to fill the millions of empty seats on the road. We offer long- and short-distance carpooling as well as a bus marketplace, with the mission to become the go-to marketplace for shared road mobility.

Today, our community counts over 100 million travelers in 22 countries, creating a smarter, friendlier and carbon-saving transport network. Every year, our community saves 1.6 million tons of CO₂e by sharing the road, equivalent to the CO₂ emissions generated by Paris traffic in a year. But it doesn't stop here – our team of 250+ engineers is developing innovative algorithms to further unlock the potential of shared travel and multiply its impact.

We're looking for people to join our journey – people who care, who are driven by impact and innovation, and who want to thrive in a fast-paced entrepreneurial environment. We offer a flexible workplace where we count on each other to take initiative. So join the ride – we can't wait to see where it takes you.

Job Description

Why join us?

Data plays a central role at BlaBlaCar, to enhance users' experience of our products and fuel business with actionable insights. Inside the Tech department, the Data Services are composed of 40+ people covering all the scope of data skills (Data Analysts, Data Engineers, Software Engineers, Data Scientists specialized in ML or in optimization). The services are now organized following Data Mesh principles, distributing data ownership to domain-specific teams that manage, own, and serve the data as a product.

As a Data Scientist specialized in optimization, you will work inside the squad dedicated to our Bus offer. You will design, implement and improve advanced optimization algorithms to transform the way BlaBlaCar Bus operates.

What you will directly contribute to:

- Design and implement new business constraints in the existing optimization algorithms
- Challenge current modeling approaches and test advanced optimization methods (Benders decomposition, Constraint programming...) to improve runtime of existing algorithms
- Build new optimization algorithms for the Operated Buses team. Example of projects to be launched: optimal driver scheduling algorithm, Line design optimizer, Optimal cadencing computation tool ...



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- Interact on a daily basis in a fully agile setup with the Bus Data Team, sharing your findings and results with the rest of the team
- Work hand in hand with talented Back End and Front End Software Engineers to integrate your algorithms in production

Qualifications

What you will need to be successful

- Engineering school, pursuing or holding a Master degree in mathematics, statistics, Operational Research, Machine Learning, or Engineering. To have taken courses related to optimization, especially Linear and Integer Programming.
- Proficiency in Python, including a good knowledge of Pandas library
- Knowledge of an optimization modeling language, such as PuLP, Pyomo, Gurobi, CPLEX is required
- Knowledge of Git is preferred
- Knowledge of Machine learning and related Python packages is a plus
- Autonomous, detail-oriented
- Enjoy working as a team-player and learning from others
- Fluent in English (French is not mandatory)

Additional Information

A few practical details about the role:

- Start: As soon as you are ready!
- Location: Paris HQ
- Contract: Internship (4 to 6 months, at least 5 months preferred)

What we offer all of our employees:

- A start-up spirit that fosters agility, teamwork and impact
- An inspiring working environment including state-of-the-art office spaces and a rooftop with a 360° panoramic view on Paris
- Free carpooling to live our value “Be The Member”
- Bi-Weekly BlaBlaTalks when we learn from each other
- Weekly Tech Demos

What is next:

If you are ready to join our exciting journey, please send your application to thomas.bernardi@blablacar.com



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Kindly note that only complete applications will be reviewed by our hiring team and that all your information will be kept confidential.

You can expect us to review your application within the following 3 weeks. If your application fits our requirements, we will first invite you to an interview call followed by a case study.

BlaBlaCar is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.