

# Sammy Aissaoui



06.15.27.22.84



[sammy.aissaoui@gmail.com](mailto:sammy.aissaoui@gmail.com)



[linkedin.com/sammyaissaoui](https://www.linkedin.com/sammyaissaoui)



[sammyais.com](https://sammyais.com)

## EDUCATION

---

### Grande Ecole ECAM, Paris

2020

Master of Engineering

### AFTRAL / CNAM, Paris

2019

Certificate of Professional Competence in Road Haulage

## EXPERIENCE

---

### University at Buffalo, New York

August - December 2024

Student in Operation Research

- Research on the multiple listing's impact on the waiting list for kidney transplant candidates. Technology Used : Python, NumPy, Pandas, Machine Learning (Logistic Regression, Random Forest, Survival Analysis).
- Alice AI - UB Hackaton 2nd Place: Project developed in 24 hours for the UB Hacking's Fall Hackathon. Technology Used: Python, AWS Lex, Mapbox, Google API.

### French Federation of Football (F.F.F) / Omnilog

March - August 2024

Software Engineer

- Refactor the main codebase of the French Soccer League's application by improving the source code quality and optimizing performance, utilizing Python, FastAPI, Angular, MongoDB, PostgreSQL, Kubernetes and Azure Cloud.
- Developed various backend services, including consuming application log events and sending them to Elasticsearch, migrating a MongoDB database to PostgreSQL, and optimizing match schedule generation queries, achieving over 30% reduction in computation time.
- Code reviews, profiling and pair programming within a 10-member team in an agile environment with CI/CD.

### Mobifret Transport & Logistic

Sep 2020 - Dec 2023

Software Engineer

- Developed Transport & Logistics solutions for clients : Maisons du Monde, Fnac/Darty, DPD, Amazon, Groupe La Poste.
- Enhancing efficiency in delivery rounds with stochastic demands (500+ daily) CVRPTW, optimizing warehouse storage and minimizing operational costs.
- Designed, prototyped and developed a Freight-Broker application with global team (France/India) in microservices architecture, using AWS EC2, Lambda, S3, Python FastAPI, ReactJS, Docker.
- Reduced order preparation by 40% by designing new routes picking routes based on data-analysis with Python & Pandas.

## PROJECTS

---

### Lang Story Short AI

An LLM web application that offers AI generated short stories in English, French and Japanese with contextual translation, SRS algorithm to facilitate memorization. Built with OpenAI, Python, TypeScript, FastAPI, NextJS, Google API, MongoDB.

### Lease Enjoy OS

An open source application designed for car rental agencies to streamline reservation management, track financial data, and efficiently supervise fleet operations. Built with Python, Flask, PostgreSQL, AWS.

## SKILLS

---

**Languages:** Python, JavaScript, C++, R, HTML, CSS

**Frameworks:** Flask, FastAPI, ReactJS, NextJS, Angular

**Tools:** Docker, Kubernetes, Redis, Jenkins, Terraform, Ansible, RabbitMQ, Celery

**Cloud/Databases:** AWS, Azure Cloud, MongoDB, PostgreSQL, Firebase

**Softwares:** SAS, Jira, Confluence

**Relevant Coursework:** Data Structures & Algorithms, Object Oriented Programming, Machine Learning, Deep Learning, Linear Programming, Stochastic Processes.