



Alaa Chakori Semmane
Engineering Student in AI & Optimization

🚗 Driver's License •

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🌐 /alaa-chakori-semmane
🌐 [Portfolio](#)

Internship in Sports Performance Optimization | 675h (20-24 weeks) | Available July 2025

Passionate about applying **Artificial Intelligence** to **sports performance**, I am seeking an internship with a team that has an **established technical infrastructure** to develop **data-driven solutions**: predictive analytics, computer vision applied to sports, and strategic decision-making tools.

EDUCATION

Master's in Computer Science - Artificial Intelligence

2024 - 2025

Université du Québec à Chicoutimi (UQAC), Canada • Specialization in optimization and advanced AI

Engineering Degree in Computer Science

2022 - 2025

Polytech Tours, France • International double degree, AI and optimization focus

PROFESSIONAL EXPERIENCE

Jun-Aug 2024

Research Internship - Urban Data Analytics

LIFAT Laboratory • Tours, France

Development of accessibility indicators for urban cycling networks. Adaptation of Kent & Karner (2018) methodology, creation of spatial analysis algorithms and processing of OpenStreetMap and INSEE data.

Technologies: 📄 Java, 🐍 Python

🔗 [LinkedIn Post](#)

Apr-Aug 2022

Electronic Maintenance Technician

SNCF Voyageurs • Saint-Pierre-des-Corps

Maintenance of embedded systems for TER2N NG trains. Electronic diagnostics and implementation of industrial safety protocols.

🔗 [Recommendation Letter](#)

MAJOR TECHNICAL PROJECTS

⚽ **Advanced Football xG Prediction System** – AI for real-time tactical analysis via Computer Vision

+15% accuracy

⚡ **RAG Energy Intelligence Solution** – 48h Hackathon - Multi-source optimization system with generative AI

2nd/29 teams 🔗

🔗 **Stochastic Supply Chain Optimization** – GPR meta-models and evolutionary algorithms for optimization under uncertainty

📱 **SnapSort - Mobile/Web Ecosystem** – Deep learning image classification with real-time sync

🗺 **Optimized Urban Navigation** – Multi-criteria algorithms for cycling routes (Paris, SF, Berlin)

3 cities validated 🔗

👤 **Tourist Route Optimization** – Heuristics and meta-heuristics for complex route design

Genetic algorithms 🔗

TECHNICAL SKILLS

Development: C++/C, Java, Kotlin, React, Python, SQL

Optimization: Genetic algorithms, Meta-models, Heuristics

📄 Please visit my [portfolio](#) for more details on my skills and projects.

🗣 **Languages**

Spanish: Native
French: C2
English: B2
Arabic: A2

🏆 **Achievements**

2nd AI Hackathon
International Dual Degree
6+ ML/CV Projects

🤝 **Community**

Touraine Tech Volunteer
Climate Fresco Facilitator

❤ **Interests**

Football (UQAC)
Sports Analytics
Nutrition & Fitness