ADAM LAALOUJ

Computer and Telecommunication Engineering Student

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Seeking a **6-month end-of-studies internship** starting **February 2025**, focused on **IoT**, **Data Science**, or **Artificial Intelligence**. Eager to contribute to innovative projects in these fields, with a strong preference for opportunities in **Lyon or Paris, France**.

EXPERIENCE

• **Orange Business [🟧 Business]**   *May 2024 - September 2024*
IoT and Data Analytics Intern   Lyon, France
  ◦ Spearheaded the development of "Live Integration Tracking Environment" (LITE), a web-based GIS and IoT platform for real-time 2D tracking, enhancing industrial efficiency.
  ◦ Engineered a PostgreSQL with PostGIS database, optimizing real-time geospatial data management and accuracy.
  ◦ Developed custom Grafana dashboards for improved decision-making through enhanced data visualization on the web.
  ◦ Enhanced system scalability and maintenance using QGIS, QWC2, and Docker, focusing on web application performance.

EDUCATION

• **INSA Lyon - Department of Telecommunications Services & Applications [INSA]**   *2020 - 2025*
Specialization in Telecommunications, Computer Science, Networks, and Signals   Lyon, France
  ◦ Comprehensive training with targeted courses in Mobile Networks, Full Stack Development, Artificial Intelligence and Neural Networks, Distributed Systems, Middleware, Cybersecurity, and Communication Protocols.
  ◦ Strong technical foundation in designing and implementing secure, scalable communication and IT systems, with a focus on networking and digital transformation.
  ◦ Developed advanced problem-solving, project management, and teamwork skills through hands-on projects and internships, applying innovative technologies to address industry challenges.

• **Galatasaray University [🟡]**   *September 2024 - January 2025*
University Exchange Semester in Computer Science   Istanbul, Turkey
  ◦ Advanced coursework in Internet of Things, Advanced Topics in Computer Engineering, Artificial Neural Networks, and Distributed Systems, covering key concepts and cutting-edge technologies.

• **Atlas School Group**   *2020*
Moroccan International Baccalaureate, French Option, Specialization in Mathematical Sciences - Highest Honors   Rabat, Morocco

PROJECTS

• **Computer Vision & Machine Learning Project**   *2024*
Developed an AI model for early skin cancer detection   Kaggle Challenge
  ◦ Developed a deep learning model using PyTorch for the SIIM-ISIC Melanoma Classification on [Kaggle], achieving over 85% accuracy.

• **Research Project on Drone Communication Robustness**   *2023*
Explored the robustness of telecommunications between autonomous drones operating in groups (flocks)   CITI Laboratory, Lyon, France

• **Engineering Project on Assistive Wearable Technology**   *2022*
Developed an innovative vest to assist visually impaired individuals integrating distance sensors and GPS for enhanced mobility.   MDPH Lyon

SKILLS

• **Programming Languages:** Python, Java, C/C++, JavaScript, Go, Bash, SQL, Elm
• **Web Development:** HTML & CSS, React, Node.js, Three.js, Qooxdoo
• **Data Science & Analysis:** Pandas, Numpy, Matplotlib, Jupyter, MATLAB, R, Excel, Power BI, Grafana
• **Machine Learning & AI:** TensorFlow, PyTorch, Computer Vision (OpenCV), NLP
• **Cloud Computing & DevOps:** Google Cloud, Docker, Linux, CI/CD Techniques, VSCode, Git
• **Database Management & GIS Tools:** MySQL, PostgreSQL, MongoDB, Neo4j, PostGIS, QGIS, QWC2
• **Networking:** TCP/IP, HTTP(S), SIP, VoIP, LTE, 5G, Wi-Fi, Cryptography, REST APIs, OSPF/BGP
• **Embedded Systems & Hardware Programming:** Arduino, Raspberry Pi
• **Tools & Collaboration:** JIRA, Trello, Slack, Notion, LaTeX, Canva
• **Blockchain & Edge Computing:** Basic Blockchain applications, Edge Computing fundamentals
• **Specialized Areas of Interest:** IoT, Mobile Networks, Full-Stack Development, Artificial Intelligence, Data Science
• **Personal Qualities:** Autonomy, Creativity, Team spirit, Problem-solving, Adaptability, Project management, Client-oriented

EXTRA-CURRICULAR EXPERIENCE

• **Association of Moroccan Researchers and Engineering Students at INSA (ACEIMI)**   *2021 - 2023*
  President of ACEIMI, leading a vibrant Moroccan student community at INSA Lyon. Promoted cultural exchange, supported the integration of newcomers, and organized large-scale events and workshops. Built networks connecting Moroccan students and introduced Moroccan culture to non-Moroccan students, fostering a strong, inclusive community.

• **Clubelek, INSA Lyon Robotics Club**   *2020 - 2022*
  Co-led the autonomous robot competition project, overseeing the design, programming, and testing phases in collaboration with fellow leaders. Our team participated in the 2021 French Robotics Cup, achieving 25th place out of 160 teams. This experience underscored my skills in project management, technical problem-solving, and teamwork.

ADDITIONAL INFORMATION

• **Languages:** French, Arabic (Native); English (Fluent, IELTS C1); Spanish, Russian (Intermediate)
• **Interests:** Travel, Football, Reading, Cinema, Space Exploration, Event Organization