

# Adil Lekhbioui

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## Application for a Short-Term Internship (September 2026)

*First-year Engineering Student — Networks & Telecommunications Systems*

### EDUCATION

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**2025 – Present** **École Nationale des Sciences Appliquées (ENSA), Kénitra**  
*Engineering Degree: Networks & Telecommunications Systems (GRST)*

- **Key modules:** Local Area Networks (LAN), Routing & Switching, Computer Architecture, Data Structures (C/C++), Databases (Oracle), Artificial Intelligence.

**2023 – 2025** **Faculté des Sciences et Techniques (FST), Errachidia**  
*DEUST in Mathematics, Computer Science & Physics (MIP) — **With Distinction***

- Solid foundation in algorithms, mathematical analysis, and scientific computing.

**2023** **Lycée Sidi Allal Bahraoui, Sidi Allal Bahraoui**  
*Baccalauréat in Physical Sciences — **With Distinction***

### ACADEMIC PROJECTS & ACHIEVEMENTS

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#### Database Management

*Autumn 2025*

- Designed and implemented a relational database (ERD/logical model) under Oracle.
- Wrote complex queries and stored procedures using PL/SQL.

#### Enterprise Network Design & Simulation (Cisco Packet Tracer)

*Winter 2026*

- Simulated a multi-layer network architecture with VLSM subnetting and VLAN segmentation.
- Configured dynamic routing protocols (RIP/OSPF) and implemented access control (ACLs).
- Deployed core network services (DHCP, DNS) on Cisco routers.

#### Network Intrusion Detection with Machine Learning

*Spring 2026*

- Built a classification model to detect port scanning and reconnaissance attacks using the CICIDS2017 dataset.
- Performed data preprocessing and feature engineering with Pandas and Scikit-learn.
- Visualized results on a professional dashboard using Flask + Socket.IO + D3.js

### TECHNICAL SKILLS

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- **Networks & Telecoms:** OSI/TCP-IP model, IPv4 addressing, VLANs, static & dynamic routing, switching.
- **Programming:** C & C++ (data structures, OOP), Python (NumPy, Pandas, Matplotlib), SQL/PL-SQL.
- **Tools & Software:** Cisco Packet Tracer, Git/GitHub, L<sup>A</sup>T<sub>E</sub>X (technical report writing), GNS3.

### LANGUAGES & CERTIFICATIONS

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- **Languages:** Arabic (Native), French (Fluent), English (Technical proficiency).
- **Certifications (In Progress):** CCNA 1 – Introduction to Networks | IBM DevOps and Software Engineering Professional Certificate.

### INTERESTS & PERSONAL QUALITIES

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- **Personal qualities:** Analytical mindset, intellectual curiosity, attention to detail, and a collaborative approach to teamwork in diverse environments.
- **Interests:** Computer networking, open-source technologies, data-driven problem solving, and self-directed software development projects.