

LBIEL BILAL

Engineering Student in Software Development & Cybersecurity

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📍 Fès, Morocco

PROFILE

Currently in the 2nd year of an engineering cycle, I am passionate about defensive cybersecurity, artificial intelligence, and software development. I design "Production-Ready" security solutions (Full-Stack Python/JS), ranging from low-level architecture (cryptographic protocols) to modern interfaces. I am actively seeking an internship to leverage my expertise in IDS, ML, and cryptography.

TECHNICAL SKILLS

- **Security & Defense:** IDS/IPS, ELK Stack, Honeypots, Malware Analysis, Nmap, SOC operations.
- **Cryptography:** AES-256-GCM, PKI, Key Derivation (PBKDF2), VPN Protocols.
- **Machine Learning:** Scikit-learn, XGBoost, TensorFlow, Anomaly Detection.
- **Development:** Python (Advanced), JavaScript, C/C++, Flask, REST APIs, PyQt/Tkinter.
- **DevOps & Tools:** Docker, Git/GitHub, Linux Administration, SQL, CI/CD pipelines.

EDUCATION

State Engineering Degree (Computer Engineering)	2023 – Present
<i>National School of Applied Sciences (ENSA), Fès</i>	<i>Ongoing (2nd Year)</i>
• Specialization: Software Development, Advanced Networking, Information Systems Security.	

KEY PROJECTS

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|---|-----------------------------|
| User-Space Mini-VPN (Custom Crypto Architecture) | <i>System Security</i> |
| <ul style="list-style-type: none">• Designed a complete VPN protocol inspired by WireGuard (Secure Handshake).• Implemented AES-256-GCM authenticated encryption with anti-replay protection.• Developed a robust client/server architecture (UDP) managing multiple sessions.• Built a modern GUI (Tkinter) with user authentication features. | |
| Behavioral Detection System (ML-Based) | <i>AI for Cybersecurity</i> |
| <ul style="list-style-type: none">• Real-time detection engine for Ransomware and Keyloggers using Machine Learning.• Developed a full pipeline: Log collection and advanced feature engineering (50+ features).• Achieved >95% accuracy in detecting Zero-Day threats.• Containerized deployment (Docker) with a monitoring dashboard (Streamlit). | |
| Advanced Network Scanner with GUI | <i>Open Source Tool</i> |
| <ul style="list-style-type: none">• Developed a network audit solution integrating Nmap engines (-sS, -sV, -O).• Optimized UX/UI for managing large-scale networks (>1000 hosts).• Features: Automated reporting (PDF/JSON), alerting systems, and scan history. | |
| Distributed Defense Infrastructure | <i>Security Lab</i> |
| <ul style="list-style-type: none">• Multi-protocol "Deception" architecture (SSH, HTTP, FTP) to capture attack vectors.• Centralized logging via ELK Stack (Elasticsearch, Logstash, Kibana) for threat analysis. | |

CERTIFICATIONS & SELF-TRAINING

- **Linux:** Mastering Linux Complete Guide (Udemy) - System Administration.
- **Networking:** Cisco Introduction to Cybersecurity.
- **Databases:** Oracle SQL Data Modeling.

LEADERSHIP & LANGUAGES

SECOPS Club (ENSA Fès) - Tech Lead

- Organized CTF (Capture The Flag) competitions and live technical workshops.
- Active member of the Student Union (ADEI).

Languages: French (Fluent), English (Technical/Professional), Arabic (Native).