

MOHAMED MEDJAHDI

Computer Science Student | Cybersecurity Specialist | Linux Developer

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 [LinkedIn](#)

 [GitHub](#)

 [Portfolio](#)

 [Design Portfolio](#)

SUMMARY

Driven Computer Science student with expertise in Linux kernel optimization, ethical hacking, and secure software development. Built award-winning projects like Fennec OS and contributed to Algeria's first Linux distribution. Passionate about leveraging cutting-edge technologies to solve real-world problems

TECHNICAL SKILLS

- **Programming:** Python, C, Bash, JavaScript, HTML5/CSS.
- **Cybersecurity:** Ethical Hacking (Kali Linux), Network Security (Wireshark, Nmap), Threat Analysis
- **OS Development:** Kernel Customization, System Optimization, Package Management (APT/YUM)
- **Cloud & DevOps:** Docker, Google Cloud Platform (GCP), CI/CD Pipelines
- **Tools:** Git, VS Code, GNU Debugger (GDB), Metasploit, VirtualBox, Make
- **Design:** UI/UX Prototyping, Web Design, Branding (Showcased on Behance)

EDUCATION

Bachelor of Computer Science (Licence 2)

University of Dr. Moulay Tahar, Saida

- **Key Coursework:** Cybersecurity, Data Structures & Algorithms, Linux Systems, Computer Networks
- **Competitive Engagements:**

1st Algerian Linux Distribution Competition (2024): Selected participant contributing to Algeria's first Linux OS under CNLL.

Saida Hackathon 2023: 4th Place | Built Fennec OS (lightweight Linux distro).

PROJECTS & ACHIEVEMENTS

Fennec OS Development

Saida Hackathon 2023 | Team Lead | 4th Place

- Architected a lightweight Linux distribution from scratch, focusing on kernel optimization and security hardening.
- Tools: GCC, GNU Make, Bash scripting, Git | Impact: Reduced boot time by 20%.
- Certificate: [View Here](#)

Algerian Linux Distribution Initiative

National Commission for Free Software (CNLL) | 2024

- Collaborating to develop Algeria's first modular Linux OS prioritizing security, stability, and sector-specific adaptability.
- **Key Contributions:** Debugging kernel modules, benchmarking performance, and designing package management workflows.
- **Competition Link:**
<https://www.univ-saida.dz/uschannel/biggest-and-the-first-algerian-linux-distribution-hackathon2024-is-coming-soon-stay-tuned-and-stay-ready/>

Secure Banking Framework

Udemy Certification Project | 2024

- Engineered a fraud-resistant banking system using Python, SQLite, and Kali Linux tools to detect anomalies in real-time.
- Techniques Applied: Packet sniffing (Scapy), encryption (AES-256), and intrusion detection.

CERTIFICATIONS

Cybersecurity & Ethical Hacking

- Mastering Kali Linux for Ethical Hackers (Udemy, Aug 2024) | [Credential](#)
- Hack-Proof Banking: Defend Against Credit Card Threats (Udemy, Aug 2024) | [Credential](#)
- CCNA Certification (Simplilearn, Feb 2024) | [Credential](#)
- Introduction to Cyber Security (Simplilearn, Feb 2024) | [Credential](#)

Cloud, AI & Development

- Google Cloud Foundations (LinkedIn, Nov 2024) | [Credential](#)
- Fundamentals of Generative AI (Microsoft, Nov 2024) | [Credential](#)
- Fundamentals of Deep Learning (NVIDIA, Mar 2024) | [Credential](#)
- Introduction to Zero Trust (Microsoft, Dec 2024) | [Credential](#)

Programming & Web Development

- Programming in C Certification (Putcodes, Jan 2025) | [Credential](#)
- Korsatcode WordPress Basics (Nov 2023) | Credential ID: 613005996

- HTML5 Tutorial (M3aarf, 2023) | Credential ID: 13690851525

Additional Credentials

- Google Analytics Certification (Google, Dec 2023) | [Credential](#)
- Saida Hackathon 2023 Finalist (Fennec OS Development) | [Certificate](#)

PROFESSIONAL EXPERIENCE

Founder & Technical Lead | Dream Services

Digital Agency | 2023–Present

- Spearheaded the development of secure web platforms and cybersecurity solutions for SMEs, ensuring compliance with modern encryption standards and industry best practices.
- Led cross-functional teams in Agile environments, optimizing workflows using Git, CI/CD pipelines, and automation tools.
- Designed intuitive UI/UX interfaces for client projects, balancing technical precision with user-centric design.
- Developed and maintained automation testing tools for security, enhancing the security posture of web applications by detecting vulnerabilities and ensuring secure deployment.
- Created an advanced SMTP-based email sender tool, streamlining secure communication systems for clients.
- Worked on a diverse range of cybersecurity projects, including:
 - **WhoWeb Scanner:** A Python-based web scanner tool designed to extract essential data such as IP addresses, cookies, email addresses, and server details, enhancing security analysis for websites.
 - **SHA1 Password Cracker:** A script for cracking SHA1 hashes, demonstrating deep knowledge in cryptographic vulnerabilities and ethical hacking.
 - **Wi-Fi Password Retrieval (LAKASA-WIFI):** A Python tool designed for connecting to Wi-Fi networks using wordlist or randomly generated passwords (for educational purposes).
 - **PDF Analyzer:** A Python-based script for extracting and analyzing PDF text content, optimizing document security assessments.
 - **E-commerce Security and Optimization:** Worked on the development of secure, user-friendly e-commerce platforms like

EvaStore, implementing safety protocols, transaction encryption, and vulnerability assessments.

- **Student Management System:** A Python-based system built with MySQL, focusing on managing sensitive student data securely through CRUD operations.
- **Port Scanner & Proxy Checker:** Developed tools for network security testing, enabling security professionals to evaluate network safety by checking proxy types, response times, and port security.
- Actively contributed to open-source projects on GitHub, showcasing expertise in Python, cybersecurity, and full-stack web development. Projects include a personal website, automation tools, and security analysis tools.
- Delivered consistent results by prioritizing secure coding practices, applying encryption methods, and using modern cybersecurity tools to safeguard client data.

OTHER

- **Languages:** Arabic (Native), English (Professional), French (Intermediate)
- **Interests:** Open-source contributions, AI/ML research, competitive coding (LeetCode, HackerRank).
- **Awards:** 4th Place Saida Hackathon 2023 | CNLL Linux Competition Participant 2024.