

# Talbi Abderrahmen

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## Profile

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Fifth-year Computer Science and Cybersecurity student at the Higher School of Computer Science (ESI-SBA), Algeria. Passionate about networking, cybersecurity, cloud technologies, and full-stack development. Grand Prize Winner of the Huawei ICT Competition in both the Computing and Network tracks. Experienced in mobile and web development, enterprise networking, and DevOps.

## Achievements

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### Grand Prize Winner — Huawei ICT Competition 2026 (Network Track)

- Designed multi-area OSPF architectures with LSA-type optimisation, route summarisation, and stub/NSSA area configuration.
- Deployed wired and wireless networks; configured access controllers and access points with full details: AP groups, AP names, regulatory domains, SSIDs, security profiles, traffic filters, RRM profiles, and 2.4 GHz/5 GHz radio profiles.
- Configured IPv4/IPv6 DHCP pools for both wired and wireless environments.
- Set up seamless roaming across access points and access controllers.
- Ensured high availability for access points through HSB, VRRP, and N+1 configurations.
- Configured multicast routing to guarantee data reachability from sources to receivers.
- Applied QoS policies to maximise wired and wireless network performance.
- Automated network operations using Python (Paramiko and Netmiko) to retrieve, inject, back up, and save device configurations across routers and switches.
- Prevented network loops while maximising traffic efficiency using STP, MSTP, and RSTP.
- Hardened wireless infrastructure by configuring WIDS profiles and managing station allow/deny lists.
- Implemented routing and switching with OSPF, IS-IS, and BGP; managed VLAN and IP assignment and VPN instance usage.

### Grand Prize Winner — Huawei ICT Competition 2025 (Computing Track)

- Worked with openGauss and openEuler platforms for system and database operations.
- Performed advanced database management: table manipulation, data migration, stored functions and procedures, and complex queries.
- Installed and configured a multi-node database cluster in active/standby mode.
- Applied DevOps practices for deployment and lifecycle management.

### 2nd Place — AlphaAI Competition

- Developed solutions involving image processing, text analysis, and machine learning.

## Education

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### Higher School of Computer Science (ESI-SBA)

Computer Science & Cybersecurity Engineering  
Sidi Bel Abbès, Algeria

2022 – Present

## Experience

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### Technical Team Leader — Alphabit Club

Sep 2025 – Present

- Maintained website availability and reliability for the club.
- Coordinated collaboration and task distribution within the technical team.
- Built and ensured high availability of event management platforms.

### Network Intern — Algérie Télécom

Aug 2025 – Sep 2025

- Participated in day-to-day network infrastructure operations.
- Worked with enterprise networking technologies in a production environment.
- Hands-on experience with physical network equipment including routers and switches.

### Freelance Developer & Designer

2024 – Present

- Delivered web and mobile development projects for various clients.
- Provided graphic design services including branding and UI assets.

### Technical Leader — ACS Club

Jul 2025 – Present

### Designer — Alphabit Club

Oct 2024 – Jun 2025

### Technical Member — Ingeniums Club

Oct 2024 – Jun 2025

### Developer Member — Google DSC

Sep 2023 – Jun 2024

## Projects

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- **IatroSense AI** — AI-powered healthcare learning platform helping medical students improve learning outcomes through intelligent, personalised assistance.
- **NetConfig v1.0** — Network configuration generation platform supporting multiple vendors and significantly reducing manual configuration errors.
- **Prisoner Tracking System** — Real-time inmate tracking and monitoring solution designed for correctional facilities, enabling efficient oversight and reporting.

## Technical Skills

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- WLAN
- Routing & Switching (OSPF, IS-IS, BGP)
- STP / MSTP / RSTP
- VRRP / HSB
- Network Automation (Python, Netmiko, Paramiko)
- Docker / Docker Compose
- Kubernetes
- Jenkins / GitHub Actions
- SQL & Database Management
- React Native / Node.js / MongoDB
- UI/UX Design

## Certifications

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- Huawei ICT Competition Winner Certificate
- SQL Associate Certificate
- Python Data Associate Certificate
- Data Scientist Associate Certificate
- Introduction to Linux (LFS101) — The Linux Foundation

## Languages

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Arabic (Native) • English (Professional) • French (Professional)