



Yahiaoui Raiane

Telecommunications Systems Engineer

Telecommunications Systems Engineer with a strong academic background and a passion for artificial intelligence, cybersecurity, and emerging technologies. Skilled in networks, embedded systems, programming, and digital signal processing. Certified in cybersecurity and AI, with practical experience in project implementation, education, and customer service. Motivated, autonomous, and eager to contribute to innovative tech-driven environments.

Contact

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Education

2022 - 2024

**Master 2 en Systèmes de
Télécommunication**

Université de Saad Dahleb

2019 - 2022

**Licence en
Télécommunications**

Université de Saad Dahleb

Technical Skills

- Programming: Python, Java, JavaScript, MATLAB
- Web: HTML, CSS, Responsive Design
- AI/ML: Deep Learning, Computer Vision, Neural Networks
- Tools: Git, GitHub, Linux, Cisco Packet Tracer
- Platforms: Windows, Ubuntu

Language

- Arabic – Native
- French – Fluent
- English – Fluent (IELTS preparation completed)

Experience

2024 (1 month)

STC Academy | Koléa city 128

Facilitator and Programming Trainer

- Supervised tech workshops for children aged 7 to 16.
- Taught basic programming in Scratch and introduced AI concepts using beginner-friendly tools.
- Encouraged creativity and digital curiosity in youth using English as the primary language.

2022 - 2023

CAAR Assurance | Koléa cited 128

Customer service optimization

- Contacted clients to update or renew auto/travel insurance policies.
- Presented coverage options and improved customer retention.

2021 - 2022

Algeria Telecom | Blida

Telecommunications Technician

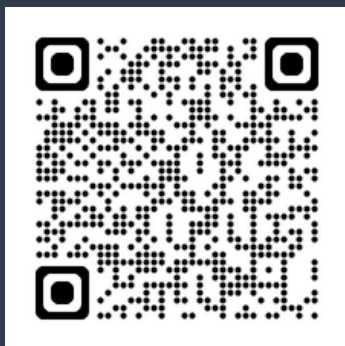
- Assisted with fiber optic installations, modem configurations, and line repairs.
- Gained hands-on experience with network infrastructure and customer installations.

Certifications

- Introduction to Cybersecurity – Cisco Networking Academy
- TCP/IP Network Applications – Huawei
- Critical Infrastructure Protection – OPSWAT Academy
- Artificial Intelligence for Beginners – Simplilearn
- IELTS Academic Test Prep – University of Queensland
- Responsive Web Design – FreeCodeCamp



Linked



Academic & Technical Projects

Master's Thesis – Comparative Study of Deep Learning Architectures for Iris Recognition


- Compared ResNet50 and MobileNetV2 using CASIA and UBIRIS.v2 datasets.
- Applied transfer learning and pre-processing (Gaussian blur, normalization, SIFT).
- ResNet50 with UBIRIS.v2 achieved best accuracy; MobileNetV2 showed lightweight advantages.

Design and implementation of a Trojan Horse “ProRat

- Simulated a client-server attack using a Trojan hidden in an image file.
- Demonstrated registry manipulation, system integration, and IP-based remote control.
- Proposed detection and defense mechanisms for Trojan-based threats.

Robust Iris Recognition with SIFT on CASIA-Iris-Thousand

- Built a feature-based iris recognition pipeline using SIFT and annotated masks.
- Employed the LabelMe tool for segmentation; achieved accurate keypoint detection.
- Compared results with DL models and published the paper on Academia.edu.

 All academic papers and detailed project reports available on my Academia.edu profile:

<https://uni-blida.academia.edu/RaianeYahiaoui>