Malak EMZIANE

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Presentation

Computer science engineer specializing in networks and artificial intelligence, with enriching experience acquired through innovative projects and internships in demanding technical environments. Constantly exploring new technologies, I am ready to put my skills to the service of ambitious projects.

Academic Excellence

Engineer Degree in Computer science, Option: industrial networks and Artificial Intelligence   **2024**

National Higher School of Renewable Energies, Environment and Development -Algeria

Master Degree in Telecommunication's Systems   **2024**

National Higher School of Renewable Energies, Environment and Development -Algeria

Preparatory Classes in Engineering Sciences and Technologies   **2021**

Higher School of Industrial Technologies –Algeria

Bachelor Degree in Mathematics   **2019**

High school Mohamed rekaizi -Algeria

Publication

"A New Tree Quantum Key Agreement Protocol for Secure Multiparty Communication"   **2024**

In Journal of Telecommunications and Information Technology

Professional experience

SIEMENS| Algiers | Intern   **Jul-Aug 2023**

- Programming of PLCs for industrial automation with TIA Portal.
- Optimization of automated systems and integration of IT solutions.

CDTA (dvanced Technology Research Center) | Algiers | Intern   **Jan 2023**

- Design of AI solutions to optimize energy management systems.
- Analysis of user needs and development of adapted software applications

The Algerian Electricity Production Company (SPE) | Algiers | Intern   **Dec 2022**

- Monitoring of network infrastructures and implementation of security solutions.
- Continuous improvement of systems to guarantee stability and security.

Algérie TELECOM | Algiers | Intern   **Jul 2022**

- Design of network security solutions to protect infrastructures.
- Implementation of measures to strengthen the security and performance of systems.

IT SKILLS

- **Programming Languages:** Java, Python
- **Web Development (Frontend):** HTML, CSS, and JavaScript
- **Operating Systems and Development Tools:** Linux (Ubuntu), Windows ,VSCode
- **Scripting**: Linux shell
- **Software:** Cisco Packet Tracer,Android Studio, Arduino, Qunetsim, and Hadoop
- **Virtualization:** Basic knowledge of VMWare
- **Database Management:** SQL
- **AI:** Pandas, TensorFlow, Keras

Volunteering

- **Event Mnager** :3.6 Coding
- **Founder member** :ESP: Engineers solve problems
- **Founder and president** :AINEC: Artificial intelligence and network engineering Club
- **Evenet Manager** DISRUPT
- **Volunteer trainer in Arduino** : ARDUINO (for scientific clubs)
- **General Secretary** Zenith Club

Languages

- **English :** Fluent in speaking and writing
- **French :** Fluent in speaking and writing
- **Arabic :** Native language