

CHINE SOHAIB

COMPUTER ENGINEER

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Profile

Computer Engineer specialized in Networks and Artificial Intelligence, with solid experience acquired through innovative projects and internships in demanding technical environments. Driven by a passion for new technologies, I am determined to apply my skills to ambitious projects and tackle stimulating challenges, with the goal of contributing meaningfully to the innovation and optimization of IT systems.

Education

- **Computer Engineering – Specialization: Networks and Artificial Intelligence (2025)**

National Higher School of Renewable Energies, Environment, and Sustainable Development

- **Master's in Telecommunication Systems (2025)**

National Higher School of Renewable Energies, Environment, and Sustainable Development

- **Winner of the national entrance competition to top engineering schools (2022)**

National Higher School of Renewable Energies, Environment, and Sustainable Development

Final Year Project

Enhanced Cooperative Caching Strategy for the Internet of Vehicles (IoV) Using Real-Time Traffic Prediction

Successfully developed an advanced cooperative caching algorithm tailored for the Internet of Vehicles. The project integrated real-time traffic prediction to optimize content placement and improve data accessibility across vehicular networks. This work involved hybrid AI models, including LSTM and Transformer architectures, and emphasized intelligent content distribution in dynamic network environments.

Research Publications and Submissions

1. “**Hybrid Deep Learning Model for Predicting Traffic-Aware Content Popularity in Vehicular Networks.**”

- **Submitted to:** IEEE Transactions on Intelligent Transportation Systems – *Under Review* (June 2025).

2. “A Transformer-Assisted Cooperative Caching Framework with Q-Learning Optimization for Internet of Vehicles.”

- **Submitted to:** Journal of King Saud University – Computer and Information Sciences (JKSU-CIS) – *Under Review* (June 2025).

Professional Experience

Sonelgaz, Batna | Intern | December 2023

- Designed and developed AI solutions for energy management system optimization.
- Analyzed user needs and developed customized software applications.

ISFA (Institut Schneider Formation Algeria), Algiers | Training | February 2024

- High and Low Voltage Electrical Certification (AS+BS) – Acquired essential skills to safely work on high and low voltage electrical installations.

Sonelgaz, Mostaganem | Intern | February 2024

- Setup and configuration of storage equipment.
- Installation and management of IBM battery systems for energy backup support.

Technical Skills

Programming Languages: Java, Python, C

Web Development (Frontend): HTML, CSS, JavaScript

Operating Systems: Linux, Windows

Tools & Software: Android Studio, eNSP, Cisco Packet Tracer, Arduino, VS Code, VMware

Networking: TCP/IP, UDP, DNS, HTTP, HTTPS, VLANs, Firewalls, Switch Configuration

Databases: SQL and Oracle database management and optimization

Machine/Deep Learning & AI: Numpy, Pandas, TensorFlow, Keras

Helpdesk & IT Support :

- Remote Desktop Tools (AnyDesk, RDP)
- Troubleshooting Hardware/Software, Printer Setup, User Account Management
- Active Directory Basics, Password Resets, Basic Networking Diagnostics

Cybersecurity:

- **Red Team Operations:** Penetration testing, vulnerability assessment, social engineering
- **Tools Used:** Metasploit, Burp Suite, Kali Linux, Nessus, Nmap

Volunteering

- **Technical Committee Member**
 - International Conference on AI in Higher Education
 - Participated in organizing the 2nd International Conference titled **“Artificial Intelligence in Improving Higher Education and Funding”**, held in **December 2024**. Contributed as a technical committee member responsible for evaluating technical infrastructure and digital tools used.
- **IT Support & Helpdesk Assistance (Informal/Volunteer Basis)** Provided technical assistance to peers and university staff including basic troubleshooting, printer and device setup, network configuration, and user support. Gained practical exposure to desktop support and remote assistance tools.
- **Event Organization:** 3.6 Coding, 12th International Conference on Systems and Control (ICSC), Batna DISRUPT
- **Member:** AINEC: Artificial Intelligence and Network Engineering Club

Languages

French: Intermediate (written and spoken)

English: Fluent (written and spoken)

Arabic: Native language

