

ABDELMOEMEN KILANI

Computer Systems Engineering & IoT Student

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Profile

Third-year Computer Systems and IoT Engineering student, passionate about cybersecurity and artificial intelligence. Currently seeking a **final-year internship (PFE)** to apply my technical skills and contribute to innovative projects. Active in CTF competitions and an IEEE member, combining rigor, curiosity, and teamwork.

Education

Bachelor's Degree in Computer Systems Engineering

2023 – Present

Higher Institute of Computer Science and Communication Technologies (ISITCom), Sousse

Mathematics Baccalaureate

2023

Avenir High School, Kairouan

Professional Experience

IoT Development Intern – BQUBE ITS, Tunis

Jul. 2025 – Aug. 2025

Developed IoT solutions based on microcontrollers, implemented embedded prototypes, and conducted firmware testing.

DevOps Intern – VEO Worldwide Services, Tunis

Aug. 2025 – Sept. 2025

Integrated DevOps practices within SAP to enhance automation and reliability. Contributed to CI/CD pipelines and version management.

Academic Projects

DefenSys – AI Vulnerability Detection Platform

2025

Automated code analysis to detect software vulnerabilities (CVE) using AI. Generated detailed security reports.

Tech: FastAPI, PostgreSQL, Redis, Celery, React, TypeScript, Tailwind, Vite

CTF Platform Bitwise – Full-Stack Web Application

2025

Interactive platform for cybersecurity learning with real-time challenge, team, and scoreboard management.

Tech: Next.js, React, NextAuth, Prisma, PostgreSQL, Socket.IO, Docker

Expense Tracker – Financial Management Web App

2024

Developed a web app to track expenses and income with category, budget, and report management.

Tech: JavaScript, CSS, HTML, PHP, MySQL

Solar Swarm Intelligence – Multi-Agent Solar Energy Optimization

2025

Designed a reinforcement learning-based multi-agent system to optimize and share solar energy.

Tech: Python, FastAPI, React, PyTorch, TensorFlow, Docker, Redis

Technical Skills

Languages: JavaScript, TypeScript, PHP, C/C++, Java, Python, ABAP

Frameworks: React, Next.js, FastAPI, Tailwind

Databases: MySQL, PostgreSQL, MongoDB

Systems & Tools: Linux, Git/GitLab, Docker, SAP

Cybersecurity: Pentesting, CTF, IoT Security

Embedded Systems: Arduino, ESP32, VHDL

Certifications

Cisco Certified Networking Basics

Mar. 2025

Competitions

IasTam (IEEE) – 1st Place

Oct. 2025

Raksha Pentest (Securinets) – 4th Place

Apr. 2025

Redroom Hackathon (Securinets) – 3rd Place

Feb. 2025

Clubs & Organizations

Treasurer – IEEE ISITCom	2024 – Present
Managed club finances, ensured budget follow-up, and supported event organization.	
Active Member – Securinets ISITCom	2023 – Present
Participated in cybersecurity activities and CTF competitions.	
Active Member – ATAST ISITCom	2023 – Present
Contributed to projects and provided support for event organization.	

Languages

Arabic (Fluent), English (Advanced), French (Advanced), German (Beginner)