



Yassine Hallous

+216-98477182 | yassine_hallous@ieee.org

[linkedin.com/in/yassine-hallous](https://www.linkedin.com/in/yassine-hallous) | github.com/Hallous-Yassine



hallous-yassine.github.io/My-portfolio

Tunis, Sousse – Tunisia

PROFESSIONAL SUMMARY

A third-year Computer Engineering student specializing in Embedded Systems and IoT. Proven experience in app development, backend system design, and creating automated and smart solutions. Demonstrates strong leadership and project coordination skills through active involvement in IEEE. Seeking a final-year internship to apply technical skills and contribute to innovative projects.





ACADEMIC EXPERIENCE






- **SofiaTech**  July 2025 - August 2025
Summer Internship Ariana, Tunisia
 - Developed RuleGuard, a Python-based application that automates code verification for C source and header files against customizable rules predefined by SOFIOS guidelines
 - Created a Graphical User Interface (GUI) that provides real-time verification, detailed violation tracking, and exportable reports for enhanced code review efficiency
 - Reduced manual code review time by 70% through precise violation tracking and automated fix suggestions, ensuring code consistency and clarity across the development team
- **SofiaTech**  July 2024 - August 2024
Summer Internship Ariana, Tunisie
 - Developed a Flutter mobile application integrated with ESP32 microcontroller programmed in Embedded C using ESP-IDF framework
 - Designed PHP/MySQL backend system with phpMyAdmin to store and manage DHT11 sensor data
 - Delivered real-time data synchronization between IoT devices and mobile interface, enhancing monitoring capabilities

EDUCATION

- **Higher Institute of Computer Science and Communication Technologies (ISITCOM)** September 2023 - June 2026
Bachelor's Degree in Computer Engineering Sousse, Tunisia
 - GPA: 16.63/20.00
- **Dar El Amen High School** 2023
Mathematics Baccalaureate Kairouan, Tunisia
 - GPA: 14.3/20.00

PROJECTS




- **SuperCleaner: A smart Chrome extension for web content cleaning.** December 2025
Tools: JavaScript, HTML, CSS, Manifest V3 
 - Built a Chrome extension to hide unwanted elements (ads, pop-ups, images, links, videos).
 - Added intelligent modes (Adult, Education, Image/Link/Icon/Video removal).
- **STL Web Viewer: 3D STL file viewer.** November 2025
Tools: React, TypeScript, Three.js, Tailwind CSS, Vite, Vercel 
 - Developed a web application to load and visualize large STL files.
 - Implemented smooth 3D rendering with Web Workers and optimized camera controls.
- **MNIST Digit Recognition: Handwritten Digit Classifier.** October 2025
Tools: Python, TensorFlow/Keras, Flask, React, TypeScript, Tailwind CSS 
 - Trained a Convolutional Neural Network (CNN) achieving 99.5% accuracy on MNIST dataset.
 - Built an interactive web application with React frontend and Flask API for real-time digit prediction.
- **CineMatch: An intelligent movie recommendation system.** October 2025
Tools: Python, Flask, Scikit-learn, React, TypeScript, Tailwind CSS 
 - Built a recommendation system using machine learning algorithms to suggest movies based on user interests.
 - Developed a modern web platform using React and TypeScript.

- **Nexova: An intelligent platform that automates industrial processes.** November 2024 – Present
Tools: Node.js, TypeScript, PostgreSQL, Electron 
 - Developed a backend system with TypeScript, Node.js, and PostgreSQL to process real-time IoT sensor data.
 - Designed RESTful APIs enabling seamless integration with frontend and IoT devices.
- **ExpenseTracker Mobile App:** April 2025
Tools: Java, XML, SQLite 
 - Built a mobile application for secure expense tracking using Java.
 - Integrated SQLite for offline data storage and efficient management.
- **QuizNight:** March 2025
Tools: Node.js, TypeScript, HTML, CSS, JavaScript 
 - Developed a full-stack quiz game platform with dynamic user interaction.
 - Implemented user management, scoring system, leaderboards, and custom quiz creation.
- **Journal App:** February 2025
Tools: Kotlin 
 - Created a mobile journal app using Kotlin, allowing users to add, view, and edit personal entries.
- **Messaging System:** March 2024
Tools: Linux, C 
 - Built a messaging server in C on Linux, enabling users to create accounts and exchange messages.


SKILLS

- **Programming Languages :** C, C++, Python, Java, Kotlin, Dart, JavaScript, TypeScript, PHP, HTML, CSS
- **AI & Machine Learning :** TensorFlow, Scikit-learn, Pandas, NumPy, Flask
- **Mobile & Backend Development :** Flutter, Node.js, Express.js, MySQL, PostgreSQL, MongoDB, Firebase
- **DevOps & Cloud :** Docker, CI/CD, Nginx, AWS
- **Embedded Systems & IoT :** ESP32, Arduino, Raspberry-Pi, MQTT
- **Tools & Platforms :** Git, GitHub, Postman, Figma, Matlab, Kali Linux, Ubuntu

HONORS AND AWARDS

- **1st Place – IAS TAM Technical Challenge** October 2025
IAS Tunisia Annual Meeting 
 - Won first place with our startup **Defensys**, an AI-powered platform providing proactive application security before and after deployment
- **Best Android Project at GDG TechDays** April 2025
GDG Sousse 
 - Awarded best project among participants in Android development bootcamp focusing on Kotlin programming and mobile application development
- **3rd Place in RedRoom Hackathon** March 2025
Securinets Hackathon 
 - Secured 3rd place overall and 2nd place in CTF competition during 26-hour intensive cybersecurity hackathon

VOLUNTEER EXPERIENCE

- **Chair of the IAS, IES, PES Joint Chapter** October 2023 - Present
IEEE ESSTHS Student Branch 
 - Organized and led technical bootcamps and industrial visits for student members.
 - Coordinated logistics and secured sponsorship for major events like Sight Day Congress and Robots League 2.0.
 - Contributed to event planning as a member of the TSYP 11 Organizing Committee.

CERTIFICATIONS

- **Cisco Networking Academy: Python Essentials 2** July 2025
- **Cisco Networking Academy: Python Essentials 1** June 2025
- **TryHackMe: Pre-Security Learning Path** July 2025
- **Cisco Networking Academy: Introduction à la cybersécurité** June 2025
- **Cisco Networking Academy: Notions de base sur les réseaux** April 2025
- **IEEE: IEEEExtreme 18.0 Programming Competition** October 2024

ADDITIONAL INFORMATION

Languages: English (Fluent), French (Fluent), Arabic (Native)
Interests: Chess, Trading, Jiu jitsu