

MOHAMED HABIB JAOUADI

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PROFESSIONAL SUMMARY

Computer networks and telecommunications engineer specialized in information security. Experienced in developing cloud native applications and scalable systems. Active in CTF competitions and dedicated to backend engineering, aiming to contribute to a team focused on secure and resilient solutions.

EDUCATION

University of Tunis El Manar <i>Master's, Engineering and Development of Communication Infrastructure and Services</i>	September 2022 - July 2025 GPA: 3.8
Higher Institute of Technological Studies in Communications of Tunis <i>Bachelor's, Information and Communication Technology Sciences</i>	September 2019 - July 2022

PROFESSIONAL EXPERIENCE

Vermeg <i>AI-Driven Threat Hunting Platform Development, intern</i> <ul style="list-style-type: none">- Designed and implemented THP-AI, an AI-powered threat hunting platform that augments Security Operations Centers (SOCs) with natural language investigation capabilities and real-time threat detection capabilities.- Built components in Go, Python, and TypeScript with LLM integration and RAG for semantic log investigation, deployed using Docker, FastAPI, and Next.js, featuring MITRE ATT&CK alignment and custom IOC correlation.	Tunis, Tunisia <i>March 2025 - July 2025</i>
Intellisec Solutions <i>Azure Security Platform Development, Intern</i> <ul style="list-style-type: none">- Led the development of an Azure security platform for cloud assessments using React and Go, integrated with CIS benchmarks to simulate conditional access policies and improve risk identification.- Enhanced misconfiguration detection by reducing false negatives, achieving accuracy comparable to third-party solutions like Argos Cloud Security.	Remote <i>July 2024 - August 2024</i>
Ernst & Young <i>Software Development and Malware Analysis, Intern</i> <ul style="list-style-type: none">- Built a malware analysis platform for the Security Operations Center, automating incident response workflows and connecting threat intelligence tools such as MISP, Cuckoo Sandbox, and KVM virtualization for dynamic malware monitoring.- Created a React and Node.js web application for user access control, implementing logging to improve security, traceability and operational efficiency.	Tunis, Tunisia <i>February 2022 - June 2023</i>
Keystone Group <i>Software Development and Malware Analysis, Intern</i> <ul style="list-style-type: none">- Created a static malware analysis automation platform using Go and Angular, improving malware detection and analysis, with over 10 microservices coordinated via RabbitMQ for task distribution and a pub/sub messaging architecture.- Designed intuitive web interfaces to improve user experience for malware analysts, simplifying task management and report generation with MongoDB for data storage.	Tunis, Tunisia <i>November 2022 - January 2023</i>

PROJECTS & OUTSIDE EXPERIENCE

LMSHELL <ul style="list-style-type: none">- Development of a lightweight Linux command interpreter with scripting capabilities, including advanced features such as command parsing, piping and redirection.- The interpreter supports interactive and batch modes, enabling efficient command execution and process management, using C and Linux system calls for core functionality.- Link to project
Laptop Recommendation Service <ul style="list-style-type: none">- Designed a personalized laptop recommendation system using Flask and Expert Systems based on a Kaggle dataset.- The service allowed users to select laptops based on usage scenarios and budget preferences, with data processing handled via Pandas and rule management through Experta.
Tree-Walk Calculator <ul style="list-style-type: none">- Created a mini-interpreter for evaluating mathematical expressions with support for variable assignment, arithmetic operations and control flow statements, using C, Flex and Bison for parsing.- Used Python for AST visualization (Abstract Syntax Tree).- Link to project

LEADERSHIP AND ACTIVITIES

Tourism Tech Jam Participant (1st Prize Winner) <ul style="list-style-type: none">- Led the development of a React Native mobile application for Tunisia's tourism sector, enabling tourists to find transportation options, make reservations, access emergency contacts and receive personalized experience recommendations.- Collaborated with a multidisciplinary team to address key industry challenges, recognized for innovative solutions under tight deadlines.
Gotham Hack Hackathon Participant (1st Prize Winner) <ul style="list-style-type: none">- Designed an IoT solution for emergency response operations, integrating Raspberry Pi and Go microservices develop real-time tracking features.- Implemented alert functionality for first responders, enabling efficient communication and coordination during emergency interventions.
Spark Engineers ISET'COM Technical Lead <ul style="list-style-type: none">- Led information security training programs through workshops.- Supervised the development of a Capture The Flag (CTF) training platform for hands-on cybersecurity learning.

SKILLS

- **Skills:** Data Structures & Algorithms, Python, React.js, Node.js, Git, cybersecurity, Computer Networking, Go, TCP, UDP, Communication skills
- **Languages:** French, Arabic, English
- **Certifications:** Azure Fundamentals (Microsoft, March 2024), Cybersecurity (ISC2, March 2024), CCNA1, CCNA2 (Cisco, 2020-2021)