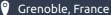# Zakaria Bouslah

Cybersecurity Apprentice

Passionate and competitive Master's student in Cybersecurity. I combine technical rigor, curiosity, and teamwork to tackle real-world challenges (pentesting, reverse engineering, threat hunting). Active in CTFs and collaborative projects, I deliver practical, results-driven solutions with an innovative mindset.

✉ zakaria.bouslah@etu.univ-grenoble-alpes.fr   📱 0753620166   📍 Grenoble, France

EDUCATION

Masters - Cybersecurity and Legal CS
Université Grenoble Alpes
09/2024 - Present   *Grenoble, France*

Bachelor - General Computer Science
Université Grenoble Alpes
09/2022 - 06/2024   *Grenoble, France*

Cycle préparatoire intégré in Mathematics and Computer Science
École Nationale Supérieure d'Informatique (ESI-SBA)
12/2020 - 06/2022   *Sidi Bel-Abbes, Algeria*

PERSONAL PROJECTS

Operating System Enhancement – NachOS (12/2024)
- Implemented paging and memory management techniques for process isolation.
- Designed a hierarchical file system with improved data organization.
- Developed thread management mechanisms for concurrent execution.

AI-Optimized Onitama Game Engine with Machine Learning (05/2024)
- Engineered a genetic algorithm to dynamically optimize heuristic weights, improving AI win rates by 49% through iterative training.
- Implemented parallelized Monte Carlo tree search (MCTS) for efficient state space exploration (40+ branches/turn).
- Designed modular OOP architecture with SOLID principles, separating game logic, AI core, and training modules.

Front-End & Voice Integration Developer- Smart Home AI Assistant (05/2025)
- Designed and developed a cross-platform desktop app for elderly assistance: voice-controlled chatbot, contextual reminders, fall detection.
- Engineered wake-word detection and visual animations for an accessible, user-centered interface.
- Collaborated in an agile team, managed **Git** version control, resolved merge conflicts proactively

WORK EXPERIENCE

Tech-Salesman
Fnac
08/2024 - 11/2024   *Grenoble*

Advisor-Salesman
LDLC
04/2023 - 01/2024   *Grenoble*

TECHNICAL SKILLS

Assembly   Bash   Binary Exploitation   C/C++   Java   Network Protocols (TCP/IP, UDP, HTTP/S, DNS...)   Python   Malware Analysis   Network Security (Firewalls, iptable, pfsense...)   Reverse Engineering   Threat Intelligence   Web Pentesting

ACHIEVEMENTS

Grehack – 4th Place [Team_Ixin] (2025)
Solved A/D and binary exploitation challenges

Grehack – 2nd Place [HackIn'TN] (2024)
Specialized in binary exploitation, reverse engineering, and forensics.

Multiple Online CTFs (2021 - 2025)
Participated in international CTFs such as HTB CTF, picoCTF, and Cyber Apocalypse with Algerian team (Team7)

CERTIFICATES

Cisco Certified Network Associate Training (11/2024 - Present)
Hands-on experience with Cisco Packet Tracer and lab simulations, in preparation for the CCNA cert. exam

LANGUAGES

Arabic
Native or Bilingual Proficiency

English
Full Professional Proficiency

French
Native or Bilingual Proficiency

German
Limited Working Proficiency

SOFT SKILLS

Collaborative leadership   Clear communication   Pedagogy   Competitive mindset   Pragmatic approach   Critical Thinking   Adaptability   Adaptability   Teamwork   Active listening