HAMROUNI Houssam

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Professional Summary

Researcher and Full-Stack Developer specializing in AI-powered systems and secure, scalable platforms. Experience building computer-vision pipelines (TensorFlow, OpenCV), desktop apps (PyQt5), and web backends (Django, ASP.NET Core) with SQL databases. Strong foundation in cybersecurity practices and data-driven dashboards.

Technical Skills

Programming: Python, JavaScript, PHP, C, Rust, Solidity
Frameworks and Libraries: Django, Flask, ASP.NET Core, PyQt5, TensorFlow, OpenCV, React
Databases and APIs: SQL Server, MySQL, SQLAlchemy, RESTful APIs
Platforms: Raspberry Pi, Linux/Unix

Professional Experience

Researcher, Fullstack Developer and AI Specialist

Frederick Research Center, Nicosia - Jan 2024 to Present

Project: FoodFlow - AI-powered solution to reduce food waste
- Engineered a smart food-waste analysis system combining Raspberry Pi, AI recognition, and real-time data visualization.
- Designed and trained a custom AI model for food classification; integrated into a PyQt5 desktop application.
- Built a scalable Django-based web platform with dashboards for monitoring and analyzing waste patterns.
- Conducted testing and debugging to improve security, reliability, and efficiency.

Project: INVESTech V2 Platform - Management system for EU Centres of Vocational Excellence
- Developed and deployed the INVESTech V2 platform using ASP.NET Core and SQL Server.
- Implemented governance board management, deliverable workflows, file uploads, multilingual support, and role-based access control.
- Designed the database schema, REST APIs, and responsive front-end components for scalability and maintainability.

Awards and Hackathons

- British Council Hackathon on AI - 2nd place (Nov 2023), Stronger Together: Artificial Intelligence for the Common Good.
- Cyprus Tech Odyssey: XRPL Hackathon - University of Nicosia (2024).
- Frederick University Bootcamp organized with Deloitte and ARIS (2023).

Education

European University, Nicosia - Master in Cybersecurity (Expected Feb 2026)
La Rochelle Universite - Bachelor in IT (Sep 2021 to Jun 2024)
Frederick University, Nicosia - Erasmus Exchange Program: Computer Science (Oct 2023 to Jun 2024)

Certifications

Cybersecurity Essentials - Cisco

Languages

French: Native | English: Highly proficient