

Lucian Medrihan

Senior Full Stack Engineer

About Me

Passionate Software Engineer with Full Stack development experience, which began by exploring Ethical Hacking at age 12. My career spans from GIS applications to management systems, with a focus on machine learning projects. I have contributed to projects for SIAN and ESA, demonstrating strong problem-solving capabilities.

Contact

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Skills

Technical Skills: Proficient in **Python**, JavaScript, and Node.js, with extensive experience in **React.js**, **Angular.js**, Flask, and FastAPI. Expertise in **full-stack development** using modern web technologies, complemented by strong skills in **Docker**, **AWS**, Cloudfront, and cloud solutions.

Additional Skills: **GIS**, **Machine Learning**, **LLMs**, Image Processing, Tailwind CSS, Bootstrap, Openlayers, Linux commands, **Cybersecurity**, Geopandas, JQuery, network programming.

Soft Skills: Proven ability to solve **complex problems**, manage projects effectively, and **lead teams**. Strong time management, critical thinking, and attention to detail.

Education

Computer and Automation Engineering
Sapienza University of Rome
Graduated: 03/2025

Languages

Italian	★ ★ ★ ★ ★
Romanian	★ ★ ★ ★ ★
English	★ ★ ★ ★ ★

Achievements & Activities

- Winner of Google Workshop** for UniverCity project, presented at Google Tel Aviv
- Active member of **Hackappatoi**, the top ethical hacking team at Sapienza University

Experiences

Full Stack Software Engineer
Tiuke
Rome, Italy
Oct 2019 - Present

- Developed web and mobile applications for the Italian Ministry of Agriculture
- Led development teams on multiple web applications, managing task assignments and coordinating colleagues' work
- Optimized legacy applications into responsive web applications
- Created internal automation tools for pre-configured layers with API services
- Developed backend system for automatic documentation generation
- Implemented LLM applications with specialized agents for data extraction
- Improved geospatial segmentation models on satellite imagery
- Created batch scripts for processing large volumes of geospatial data

Projects

Howtfits - Virtual Fitting Room
AI-powered virtual fitting room for trying clothes virtually before purchasing

- Developing an innovative AI solution that provides realistic clothing previews on user images, enhancing online shopping experience
- Creating technology for accurate size recommendations to reduce returns and increase customer satisfaction

Card Scanner
AI-powered Pokemon card recognition system with client-side processing

- Built a lightweight (<10MB) client-side card identification system that works with all new cards without requiring retraining
- Successfully integrated into TCG Pocket Collection Tracker, the world's most popular Pokemon TCG tracker, significantly enhancing user experience

SmartHouse
Complete home automation system built with Arduino MEGA2560

- Engineered a comprehensive home automation solution with PWM control for lighting, ADC inputs for sensors, and a custom shell interface
- Implemented advanced features including SSH connectivity for mobile access, device naming system, and channel management for 8 PWM outputs and 8 ADC inputs

Common Cast
Web app to find common actors between movies/TV shows

- Created a practical solution for quickly identifying where you've seen actors before, solving a common viewer frustration
- Implemented comprehensive actor information display with filmography details, enhancing user research capabilities

Openlayers GIS Applications
Enterprise-level geospatial web applications

- Developed full-stack solutions for the Italian Ministry of Agriculture that process massive geographic datasets while maintaining high performance
- Implemented advanced features including LLM-powered data extraction and SAM-based segmentation models for agricultural applications

UniverCity
Award-winning collaborative platform for university students

- Created an intelligent note-sharing system with advanced indexing algorithms, winning the Google Workshop competition
- Presented the project at Google's offices in Tel Aviv, receiving recognition for innovation and practical application