Andrea Massignan

Computer Scientist

📱 +39 340 717 6040   ✉ mail@andreamassignan.xyz   🌐 andreamassignan.xyz
🔗 andrea-massignan-4bab3b270   ⚙ duchannes19

Background

Computer Science M.Sc. student with background in AI, and full-stack development Passionate in building scalable web applications and implementing machine learning models for real world problems.

Education

Sapienza University of Rome — **Italy**
M.Sc. in Computer Science, Current Average: 110/110 — *2023–Present*
Thesis: "SYRA: Machine Learning-Based Semantic Attestation via System Call Analysis"

Sapienza University of Rome — **Italy**
B.Sc. in Ingegneria Informatica, Grade: 94/110 — *2017–2022*
Thesis: "Realizzazione di un'interfaccia online per connettere gli appassionati di gioco di ruolo"

Technical Skills

Languages: Python, JavaScript, PHP, C/C++, SQL, HTML/CSS

Frontend: React, React Native, Vite.js, Material-UI

Backend: Node.js, Express, Flask, REST APIs

AI/ML: TensorFlow, PyTorch, Computer Vision

Databases: PostgreSQL, MySQL

IoT: ROS, Gazebo, ESP32, Arduino

Tools: Git, Docker, Photoshop, Premiere Pro, Audition

Projects

React, Node.js, Express, PostgreSQL

Ci Pensa Ele | Scheduling System
Full-stack application with appointment scheduling, reservation management.

Python, U-Net, CNN, Vite.js

P-Segmentation | Medical Image Analysis
Developed automatic prostate cancer segmentation system for MRI/CT images using an ensemble of three U-Net models trained on multiple datasets, achieving improved accuracy through model combination.

Python, Gradio, MusicGen, Demucs, U-Net

Audio Restoration Studio
Built a Gradio based workflow for stress testing generative audio models, implementing degradation and restoration pipelines with custom trained neural networks for denoising research.

Chrome Extension, Flask, CNN

Angel | URL Security Analyzer
Created a Chrome extension with CNN powered backend for realtime URL security analysis, intercepting browser requests and providing instant threat assessments to users.

Ethereum, Solidity, React, Web3

4Ever | NFT DApp
Developed a decentralized application on Ethereum for NFT management, featuring smart contracts for secure transactions, a marketplace, and a gamified quest reward system.

React Native, ESP32, Arduino, Python

Gym Tracker | IoT Fitness App
Built cross platform mobile app with React Native paired with ESP32 sensors for realtime workout tracking, posture analysis, and form correction with custom Arduino firmware and data visualization tools.

Languages

Italian (Native)   English (Fluent)