Lucian Dorin CRAINIC
Software Engineer

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I am a **Software Engineer**, specializing in *Software Engineering and Testing*. With a **Computer Science** degree, I am committed to **continuous learning** and passionate about **driving innovation**. I actively seek to integrate *modern* and *emerging solutions* to enhance systems performance, reliability, and efficiency.

EXPERIENCE

ELT Group 2024 - Present	**Software Test Engineer, ROME, Italy** ➤ Design and execute automated test frameworks for **Embedded Software** in *Sensor Systems*, using a **Python**/**C++**/**Robot Framework** stack. ➤ Develop CI/CD pipelines using **GitLab CI/CD** and **Docker** to simplify testing across diverse product lines, reducing deployment risks in high stakes environments. ➤ Collaborate with **cross functional teams** (*Software*, *Firmware*, *QA*) to validate software hardware integration and compliance with stringent **defense standards**. ➤ Created **reusable Test Suites** for *Electronic Warfare Systems*, such as *Zeus* and *ELT-162*, enabling the use of consistent testing procedures and approaches across different product specializations.

EDUCATION

2024 - Present	**M.Sc. in Computer Science** at *La Sapienza* University with a curriculum in **Systems and Networking**.
2020 - 2024	**B.Sc. in Computer Science** at *La Sapienza* University with a Thesis in **Machine Learning**. github.com/LucianCrainic/bsc-thesis/

SKILLS

Programming	Python, C++, Bash.
Libraries	Python : *RobotFramework, ZeroMQ, Selenium, Pandas, NumPy, SciKit-Learn*. C++ : *Boost, Qt*.
Others	Linux, Git, JSON, YAML, Markdown, Excel, Docker, CMake, Conan.

PROJECTS

Brain Cancer Segmentation and Classification

 github.com/davidebelcastro-sig/BrainCancerSegmentation-Classification   🔗 Maker Faire 2023

This project aims to use **Machine Learning** and **AI** to segment and classify brain tumors. It includes a user-friendly **GUI** for uploading and visualizing images, leveraging various libraries for its implementation. The tool provides segmentation results, including tumor probability and area, and classifies tumors into glioma, meningioma, or pituitary categories.

`Python` `OpenCV` `Scikit-Learn` `TensorFlow` `NumPy` `Flet`

Jarvis : Personal Moodle Exam Assistant

 github.com/struggling-student/Jarvis

An **automated tool** developed using Python and Selenium, designed to answer questions on the *Moodle platform*. The tool can identify and answer questions that it has previously encountered. If it encounters new questions during a quiz, it has the capability to download and store them for future use. This ensures that over time, it becomes more knowledgeable about the questions in the quizzes.

`Python` `Selenium` `OpenCV` `Scikit-Learn` `Pillow`

Tiny-ViT : Lightweight Vision Transformer for Efficient Image Recognition

 github.com/struggling-student/Tiny-ViT

Developed a compact **Vision Transformer (ViT)** model optimized for efficiency, balancing performance and computational cost. Implemented and trained Tiny-ViT for *image classification tasks*, leveraging model pruning and quantization techniques to enhance deployment on edge devices.

`Computer Vision` `Deep Learning` `PyTorch` `TensorFlow` `Scikit-Learn`

ABOUT ME

➤ **Languages :** Italian, English, Romanian.
➤ **Interests :** Sports (Swimming, Cycling, Weight Lifting), Nature and Urban Photography and Videography.