

MARCO PREZIOSI

AI Software Engineer

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WORK EXPERIENCE

AI Software Engineer

🔗 Python GoLang TypeScript Docker

Laser Navigation Srl.

📅 Aug 2022 – ongoing

- Currently **leading a team** of 4 for algorithmic design and development efforts to seamlessly integrate a LLM into a **chatbot solution** for a help desk environment.
- Researching, developing and deploying **deep learning algorithms** for real-time video surveillance using RGB cameras and LIDAR sensors.
- Developed applications for **3D reconstruction** from monocular cameras, achieving a margin of error lower than 10% on points within 15 meters distance. These applications aimed to obtain a usable point cloud for **autonomous driving systems**, enabling real-time operation on embedded devices.

Machine Learning Researcher

🔗 ROS R

University of Salerno

📅 Sept 2021 – Jul 2022

- Successfully addressed **neural network optimization** for a multitask network for Face Analysis on an embedded social robot device for images, resulting in a system's processing speed increase by 2.5 to 4 times, along with a memory space reduction of 2 to 4 times.
- Developed Deep Learning algorithms for audio signal processing, along with personalized and empathetic **human-robot dialogue (HRI)**, considering real-time constraints.
- These models were tested and developed in the context of the **European project FELICE**.

Software Engineer

🔗 JavaScript PHP HTML CSS SQL

My Admin Srl.

📅 Oct 2020 – Sept 2021

- Spearheaded the design, construction, and management of **web-based software** customized for the Italian healthcare sector and insurance firms, encompassing both front-end and back-end development.

Software Engineer

🔗 C Java SPARQL

A.I. Tech Srl.

📅 Mar 2019 – Jul 2019

- Design and collaborate on implementing a prototype to **enhance traditional video analysis algorithms'** performance.
- Utilized semantic technologies and cutting-edge deep learning approaches.

EDUCATION

Master of Science in Computer Science - Artificial Intelligence Track

📅 4.00/4.00 GPA

University of Salerno

📅 Sept 2019 - June 2021

- Thesis work: "*Light-weight deep neural network for pedestrian detection in automotive applications*"

Bachelor of Science in Computer Engineering

📅 3.635/4.00 GPA

University of Salerno

📅 Sept 2016 - June 2019

- Thesis work: "*Semantic Technologies for improving tracking algorithms*"

LEADERSHIP

Publication (Author(s) and Title)

2023, Online

Marco Preziosi, "Fire Detection and Notification System in Real-Time Using a Lightweight YOLOv8-Based Detector" CCISP-IEEE 2023 (Accepted)

Sky Data Hackathon

2023, Sky

Led presentation and Q&A discussions, highlighting the developed Generative AI solution aimed at enhancing the Sky Glass user experience.

Supervisor of M.Sc. Computer Science students

2022, University of Salerno

Provided guidance and mentorship for student thesis work.

Teaching Assistantships

2019-2021, University of Salerno

Assisted in the design and delivery of course materials for Cognitive Robotics, including lectures, assignments, and hands-on laboratory sessions.

AWARDS AND GRANTS

Course of excellence winner: "Offensive Cybersecurity"

2021

Scholarship winner: "Cybersecurity for digital health applications" - €12000

2021

Winner of 2 consecutive **scholarships**: "Cognitive Robotics" - €3500

2019-21

"Unisa premia il merito" (Full paid tuitions toward my BSc and MSc - €7300)

2021

SKILLS

Deep Learning

Computer Vision

NLP

GenerativeAI

Teamwork

Presentation Skills

Vertex AI

DataFlow

AWS

Github

Docker

Tensorflow

Keras

PyTorch

Scikit

Spark ML

Numpy

OpenCV

ROS

HuggingFace

LangChain