

ALESSIO SORDO

Computer engineer



Born in 1998 | Italian | Marital status: Single
[linkedin.com/in/alessio-sordo](https://www.linkedin.com/in/alessio-sordo) | alesordo.com

EDUCATION

University of Ferrara

Master of Science in Computer Science and Automation Engineering

Ferrara, Italy

March 2021 – December 2023

NOVA School of Science and Technology

ERASMUS+ exchange semester

Lisbon, Portugal

September 2021 – February 2022

University of Ferrara

Bachelor of Science in Computer Science and Electronic Engineering

Ferrara, Italy

September 2017 – February 2021

EXPERIENCE

Computer Engineering Intern

Nimbus Research Centre

April 2023 – August 2023

Cork, Ireland

- Developed "Landmark Environmental" a proof-of-concept IoT project for an external client
- Learned to work with new technologies under supervisor's guidance, utilizing Kanban for project management
- Successfully completed the product, looking forward to publish a research paper related to it

Private Tutor

GoStudent

May 2022 – Present

Online

- Teaching maths, physics, informatics and english to Italian students from middle and high school
- Obtained new long-term clients through trial lessons, reaching over 10 regular students

Bartender

Bar Recoaro

July 2018 – August 2020

Legnago, Italy

TECHNICAL SKILLS

Languages: C, Python, Java, SQL, JavaScript, HTML, CSS, Kotlin, Bash

Frameworks: ESP-IDF, Tensorflow, Keras, Hyperledger Fabric

Developer Tools: Git, GitHub, GitLab, Docker, Jupyter Notebooks, VS Code, Visual Studio, IntelliJ IDEs, Eclipse

Libraries: scikit-learn, pandas, NumPy, Matplotlib

PROJECTS

Landmark Environmental | C, JavaScript, Python, scikit-learn, Git

- Validated the architecture of an internet of things device based on the ESP32 microcontroller and developed its firmware in C
- Integrated LoraWAN communication on the device with The Things Stack server and configured a cloud platform with dashboards, alerts and data retrieval functionalities using JavaScript and Python
- Developed machine learning models with scikit-learn to predict bacteria levels in wastewater using only temperature

StuNet | Python

- Implemented a Python script to score students' homework using a pre-trained machine learning model and developed a group-making algorithm for group assignments in Python
- Won a prize with a team of 4 at the HackUPC hackathon in Barcelona

Traffic sign detection system | Python, Tensorflow, Keras, scikit-learn

- Trained a machine learning model to classify and locate traffic signs in pictures
- Achieved a 91% classification accuracy and a 95% regression Mean-IOU

TaskEase | JavaScript, HTML, CSS, MongoDB, Docker

- Developed a full-stack web application for project management with Kanban board interface, using the MEAN stack (MongoDB, Express.js, Angular and Node.js)

- Integrated backend unit testing and containerisation with Docker

JAA | *Java, JavaScript, HTML, CSS, Bootstrap, SQL*

- Developed a full-stack web application demo for car sharing and long-term car leasing using Java for the backend, SQL for the database and HTML, CSS and Bootstrap for the frontend
- Implemented various functionalities for different user roles and car entities, ensuring a seamless user experience

ADDITIONAL INFORMATION

Languages proficiency: Italian (Native), English (C1), Portuguese (A2), German (A1)

Hobbies and activities: volunteer at Erasmus Student Network (ESN), football referee at Italian Referee Association (AIA), student council vice-president at the University of Ferrara

Available to relocate abroad