Alessio Sordo

Computer engineer

Born in 1998 | linkedin.com/in/alessio-sordo | alesordo.com

Experience

Graduate software engineer May 2024 – Today
Deutsche Bank *Berlin, Germany*

- Currently working on a full-stack B2B online payment project for six months
- Regularly solving software development Jira tickets and presenting meaningful results to colleagues
- Taking part in the communication initiative of the graduate programme, improving other peers' experience

Computer engineering intern April 2023 – August 2023
Nimbus Research Centre *Cork, Ireland*

- Developed successfully "Landmark Environmental", a Proof-of-Concept IoT project commissioned by an external client
- Learned to work with new technologies under supervisors' guidance, utilizing Kanban for project management

Education

University of Ferrara Ferrara, Italy
Master of Science in Computer and Automation Engineering *March 2021 – December 2023*

NOVA School of Science and Technology Lisbon, Portugal
ERASMUS+ exchange semester *September 2021 – February 2022*

University of Ferrara Ferrara, Italy
Bachelor of Science in Computer and Electronic Engineering *September 2017 – February. 2021*

Technical Skills

Languages: C, Java, Python, JavaScript, HTML, CSS, Bash
Frameworks: Spring Boot, ESP-IDF, Tensorflow, Hyperledger Fabric
Developer Tools: Git (GitHub, GitLab), Docker, Jupyter Notebooks, IDEs (VS Code, IntelliJ IDEs, Eclipse), Vim
Libraries: scikit-learn, pandas, React, NumPy, Matplotlib

Projects

Landmark Environmental - Master thesis project | *C, ESP-IDF, Python, scikit-learn, Git, JavaScript*

- Validated the hardware of the devices based on the ESP32 microcontroller, also using waveform generator and oscilloscope for testing. Developed a firmware in C that interacts with the device's components via the UART and 1-Wire protocols
- Integrated LoRa and LoRaWAN on the devices using The Things Stack server. Configured an IoT platform with dashboards, notifications and data retrieval functionalities, using Python and JavaScript
- Developed machine learning models with the scikit-learn Python library to predict bacterial levels in wastewaters using only the temperature data point

StuNet | *Python*

- Implemented a Python script to score students' homework using a pre-trained machine learning model and developed a group-making greedy 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 deep 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 application 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, HTML, CSS and Bootstrap for the frontend

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