Lorenzo Rossi

Software Developer

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Experience

FREELANCING   Web Developer | Embedded developer | Software developer

October 2020 - Current

- ➔ Engaged and completed multiple projects involving both embedded (using ESP32, Arduino and RaspberryPi) and desktop (on both Linux and Windows) systems
- ➔ Gained important soft skills like dealing with a vast amount of work and collaborating with people all over the world
- ➔ Got the chance to interface with the real world outside my university and interact with real life projects

Personal Projects

EMBEDDED DEVELOPER   Arduino | ESP32/ESP8266 | PIC

- ➔ Experience in developing embedded systems using microcontrollers
- ➔ Development of IoT system for real word data measurements
- ➔ Creation of MQTT-based systems to interface users with data

FRONT END DEVELOPER   JavaScript | HTML5 | CSS

- ➔ Development of websites and interactive web programs
- ➔ Foundations of web design and creation of user-friendly interfaces

FULL STACK DEVELOPER   JavaScript | Python

- ➔ Development of websites from back to front-end, including data analysis and visualizations
- ➔ Integration of web services with serverless platforms like AWS Lambda

VISUAL ARTS DEVELOPER   JavaScript | Python | JavaScript | Processing

- ➔ Creation of interactive or fully automated digital art projects
- ➔ Application of creative coding oriented to make visually appealing videos and images

GENERAL SOFTWARE DEVELOPER   Python | Go | C | C++ | JavaScript

- ➔ General use software development, including data analysis, visualizations, computational-heavy problem solving
- ➔ Participation in multiple online coding challenges, including Advent of Code and Codewars
- ➔ Development of libraries and creation of relative documentation using ad hoc tools like Doxygen

DEEP LEARNING DEVELOPER   Python | TensorFlow | Keras

- ➔ Development of deep learning models for image and text classification
- ➔ Creation of generative models for image and text generation
- ➔ Application of deep learning models to real world problems
- ➔ Development of models for real time image processing

Skills

PROGRAMMING

Proficient:
Python • C • JavaScript • Go • Processing

Experienced:
VHDL • SQL • Assembly • Java • Bash • Haskell • Scheme • Erlang

Familiar:
Matlab • C++ • Rust

LIBRARIES/FRAMEWORKS

jQuery • OpenCV • Flask • Django • Numpy • TensorFlow • Keras • Pandas • Matplotlib

DESCRIPTIVE LANGUAGES

CSS • HTML5 • LaTeX

OPERATING SYSTEMS

Windows • Debian based distros • Arch based distros

EMBEDDED DEVELOPMENT

Arduino • AVR/PIC microcontrollers • ESP32/ESP8266 • Raspberry Pi

OTHER

Adobe Photoshop • Adobe InDesign • Adobe Lightroom