



Enrico Zangrando

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DIGITAL SKILLS

OOP

Programming Languages

Dart / Kotlin / C++ / Python / SQL (MySQL, Postgresql) / PHP / Frontend programming: HTML, CSS, Javascript

Tools

Git / Linux (Arch, Ubuntu Server) / Windows / Android / Github

Framework and development platforms

Flutter / Android framework / Framework QT5 / Unreal Engine 5 basic knowledge

WORK EXPERIENCE

Android developer

Vimar SpA [4 Sep 2023 – 27 Oct 2023]

City: Padova, Veneto | Country: Italy

During this two-month internship at Vimar SpA, I designed and developed a WearOS application capable of controlling part of the Vimar home automation system.

Achievements:

- Design and develop a UI that would allow a pleasant user experience in a limited screen size such as that of a smartwatch.
- Study the needs and do a requirements analysis to decide what functionality to implement in the application in order to make the user experience as complete and pleasant as possible.
- Design an application that is easy to extend and maintain by applying the principles of Clean Architecture.
- Improved my ability to work in groups; I understood the importance of comparing ideas in order to get the best result due to the possibility of getting different points of view.
- Understanding of the development principles for a smartwatch application and the differences with those of a mobile application.
- Application of knowledge studied in college regarding the Agile system and the SCRUM framework.
- I understood the importance of writing good documentation and how it can help those who will have to work on the project in the future.
- I was able to approach and study how a large IoT system like Vimar's works.
- Improve my knowledge regarding Kotlin and the Android framework in general.

I am grateful to have had the opportunity to work on an innovative project that allowed me to improve or develop new knowledge in the areas of smartwatch development and IoT systems.

Office worker

Studio Diego Maragno [1 Sep 2020 – 23 Dec 2020]

Address: Via Tergola 15/A, 35010 Santa Giustina in Colle, Padova (PD) (Italy) | **Website:** <https://www.diegomaragno.eu/index.htm> | **Email address:** info@diegomaragno.eu | **Name of unit or department:** Job consulting - **Business or sector:** Administrative and support service activities

The study manages salary, taxes and employment contracts of workers that belong to the private sector.

What I did:

1. my main task was to insert new workers with their role and their contract in the management program;
2. I had to download and check some documents related to taxation from government website, check if they were ok and save them;
3. I had to tidy up the office's archive;

Volunteer

The Sharing Farm [16 Jun 2018 – 14 Jul 2018]

Address: 2771 Westminster Hwy, V7C 1A8 Richmond, Vancouver, British Columbia (Canada) | **Website:** <https://www.sharingfarm.ca/> | **Email address:** info@sharingfarm.ca | **Business or sector:** Agriculture, forestry and fishing

The Sharing Farm is dedicated to providing fresh, healthy, sustainably grown produce to community members facing food insecurity.

I had to:

1. plant different types of vegetables like potatoes, lettuce, garlic...;
2. harvest some vegetables like garlic, zucchini and carrots;
3. remove weeds from plantations;

PROJECTS

[1 Nov 2022 – 1 Jul 2023]

Lumos Minima University project carried out for the Software Engineering course. The project required the creation of a system that could automatically manage public lighting, increasing or decreasing the brightness of streetlights based on the presence of people or vehicles in the area so as to reduce energy consumption.

I contributed to the development of the backend, written in TypeScript using NodeJS, which is able to:

- Increase or decrease the brightness of streetlights based on the presence or absence of people or vehicles;
- Automatically detect failures of streetlights;
- Automatically turn on streetlights when there is insufficient external brightness;
- Manage user authentication;

I partly contributed to the development of the frontend written in Dart using the Flutter framework. The webapp is able to:

- Log a user in;
- Allow the user to manage lit areas by adding or removing devices;
- Manually set the brightness of an area;
- Display failed devices;

I developed the pipeline for continuous deployment through the utilization of Github actions, some docker containers and scripts that automatically updated the server.

[1 Jan 2023 – 1 Feb 2023]

Website for GoTo travel agency This website was made as a University project; the aim was to create an accessible website for a travel agency. During the development of this project me and my team focused on making the website accessible, well designed and with some user interactions.

The website is available only in Italian.

Link: viaggi.enricozangrando.com

[1 Jun 2024 – 1 Jul 2024]

League Library League Library is an application developed using Flutter. It aims to show the user information about League of Legends characters and also information about his/her account.

My objective was to develop an accessible and well designed application in order to provide a good usage experience to the final user.

Link: https://github.com/Ezan777/league_of_legends_library

[1 Apr 2022 – 1 Jun 2022]

Chart Creator Chart creator is a simple program written in C++ with Qt framework that let the user create modify and save some types of charts. In this project I focused a lot on polymorphism so that the code could be easily extensible.

Link: <https://ezan777.github.io/chart-creator/>

LANGUAGE SKILLS

Mother tongue(s): Italiano

Other language(s):

Inglese

LISTENING C1 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** C1

Spagnolo

LISTENING A2 **READING** B1 **WRITING** A1

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

EDUCATION AND TRAINING

Diploma di scuola superiore

IIS Newton [12 Sep 2014 – 30 Jun 2020]

Address: Via Giacomo Puccini, 27, 35012 Camposampiero (Italy) | **Website:** <https://www.newtonpertini.edu.it/> |

Field(s) of study: Natural sciences, mathematics and statistics: • Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics | **Final grade:** 80 | **Level in EQF:** EQF level 4

I studied a lot of maths science and physics

Bachelor degree in Computer Science

University of Padua [1 Oct 2020 – 15 Dec 2023]

Address: Via 8 febbraio, 2, 35122 Padova (Italy) | **Website:** <https://www.unipd.it/> | **Field(s) of study:** Information and Communication Technologies: • Software and applications development and analysis • Database and network design and administration • Computer use ; Natural sciences, mathematics and statistics: • Mathematics

• Statistics | **Level in EQF:** EQF level 6