

Filippo Brugnolaro

GRADUATE SOFTWARE ENGINEER · UNIVERSITY OF PADOVA

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Education

University of Padova

Padova, Italy

MSc IN COMPUTER SCIENCE - INTERNET, MOBILE AND SECURITY - GRADE 110L/110

Oct. 2022 - Sep. 2024

- **Relevant coursework:** Advanced Algorithms, Mobile Programming, Functional Languages, Computer & Network Security, Startup in ICT, Combinatorial Optimization, Computability
- **Focus:** Internet, Mobile and Security and briefly on theory of programming languages
- **Thesis:** Netcare: a cross-platform mobile application to ensure the quality of life of caregivers having patients with chronic diseases

University of Padova

Padova, Italy

BSc IN COMPUTER SCIENCE - GRADE 107/110

Oct. 2019 - Sep. 2022

- **Relevant coursework:** Algorithms & Data Structures, Object Oriented Programming, Software Engineering, Databases, Computer Networks, Open-source Technologies, Operating Systems
- **Thesis:** Development of a software module for purchasing order management using heuristic optimisation methods

Experience

Math, Physics and Computer Science Tutoring

Cittadella, Padova, Italy

FREELANCER

Jul. 2017 - Present

Engaged in a learning experience with personal tutoring experience in Mathematics, Physics, and Computer Science

- Offering in-depth knowledge and guidance on most important **mathematics** and **physics** topics
- Providing expertise in **C++**, **object-oriented programming** and well-versed in **algorithms & data structures**

Preparing extra simulations before class test and boasting students results with **90% success** rate

Ergon Informatica

Castelfranco Veneto, Treviso, Italy

SOFTWARE DEVELOPER - INTERNSHIP

Jul. 2022 - Sept. 2022

- Contributed to the development of an **ERP** optimization module enhancing purchasing order management
- Implemented **Tabu search** heuristic method, achieving client savings of 3–7%
- Produced comprehensive **Requirements Analysis** and **Software Architecture** documentation

Leveraged knowledge: Algorithms and Data Structures, C# and Design Patterns

Projects

NetCare

Padova, Italy

INDIVIDUAL - [GITHUB.COM/FILIPPOBRUGNOLARO/NETCARE](https://github.com/filippobrugnolaro/netcare)

September, 2024

- Developed a **multi-platform application** aimed at supporting informal caregivers managing family members with chronic conditions
- Led **API development** and **UI design** with a focus on accessibility and usability
- Conducted usability testing with a group of psychologists, achieving **100% positive** feedback

Technologies used: Flutter, Dart, Firebase, Google Cloud

Edukid

Padova, Italy

TEAMWORK - [GITHUB.COM/FILIPPOBRUGNOLARO/EDUKID_MPM](https://github.com/filippobrugnolaro/edukid_mpm)

September, 2023

- Collaborated on a **multi-platform trivia** application aimed at enhancing children's learning across various subjects
- Led the design and implementation of the **API**, **architecture** and **User Interface**
- Presented the application at the Science4All event in Padova being **1st most used** application

Technologies used: Flutter, Dart, Firebase

Artworks Tracker

Padova, Italy

TEAMWORK - [GITHUB.COM/FILIPPOBRUGNOLARO/ARTWORKS-TRACKER-APP](https://github.com/filippobrugnolaro/artworks-tracker-app)

January, 2023

- Cooperated on an **Android** application designed to enhance museum visits through **Bluetooth beacons**
- Led the building through the development of the **API** and **User Interface**
- Improved from an **accessibility** standpoint, incorporating audio features and creating an accessible path for users
- Tested the application thanks to usage of 8 disabled people achieving **100%** of positive feedback

Technologies used: Kotlin, Jetpack Compose

UPS Visualizer

Padova, Italy

TEAMWORK

July, 2022

- Led a **6 members team** in a 9-month Software Engineering project, creating **web and Android applications** for real-time UPS data visualization
- Designed and implemented the web application's **architecture**
- Tested the main web applications' functionalities reaching out **88%** of code coverage

Technologies used: React, Design Patterns

MORE PROJECTS CAN BE FOUND ON MY GITHUB PROFILE ([GITHUB.COM/FILIPPOBRUGNOLARO](https://github.com/filippobrugnolaro))

Skills

Languages Italian (C2 level), English (B2 level), Spanish (A2 level)

Technologies React, HTML5, CSS, PHP, C++, Qt, Kotlin, Jetpack Compose, Dart, Python, Javascript, F#, SQL, Docker, Git