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Education

University of Padova Padova Padova

MSc in Computer Science - Internet, Mobile and Security

Oct. 2022 - Exp. Sept. 2024

• Relevant coursework: Advanced Algorithms, Computability, Mobile Programming, Web Information Management, Startup in ICT, Functional Languages, Data Mining, Programming Languages, Methods & Models for Combinatorial Optimization, Computer & Network Security

• Focus: Internet, Mobile and Security and briefly on theory of programming languages

University of Padova Padova, Italy

B.S. IN COMPUTER SCIENCE - GRADE 107/110

Oct. 2019 - Sep. 2022

- Relevant coursework: Algorithms & Data Structures, Object Oriented Programming, Software Engineering, Databases, Web Technologies, Open-source Technologies, Automata and Formal Languages, Operations Research, Operating Systems, Computer Networks
- Thesis: Development of a software module for purchasing order management using heuristic optimisation methods (Italian only)

Experience

Math, Physics and Computer Science Tutoring

Cittadella, Padova, Italy

FREELANCE 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 polynomials, limits, derivatives and integral calculus
- Guiding students through dynamic forces, thermodynamics and electromagnetism
- 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 InformaticaCastelfranco Veneto, Treviso, Italy

SOFTWARE DEVELOPER - INTERNSHIP

Jul. 2022 - Sept. 2022

- Contributed to the development of an **ERP** optimization module enhancing purchasing order management
- Spearheaded the implementation of a **Tabu search** heuristic method
- Produced comprehensive **Requirements Analysis** and **Software Architecture** documentation
- Conducted simulations revealing potential savings ranging from 3% to 7% annually for client companies

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

Projects

Edukid Padova, Italy

TEAMWORK - 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, Firebase

TinyML Interpreter Padova, Italy

 ${\tt Individual - GITHUB.COM/FILIPPOBRUGNOLARO/TINYML}$

February, 2023

- Crafted a subset ML programming language interpreter, showcasing deep understanding of programming language
- Included key contributions on the implementation of type inference algorithm and evaluation of application expressions
- Passed evaluation of correctness with 100% test cases success rate

Technologies used: F#

Artworks Tracker Padova, Italy

TEAMWORK - GITHUB.COM/FILIPPOBRUGNOLARO/ARTWORKS-TRACKER-APP

January, 2023

September, 2021

- 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

Distilleria Veneta Padova, Italy

TEAMWORK - GITHUB.COM/FILIPPOBRUGNOLARO/DISTILLERIAVENETA

- · Participated on the design and development of a cash desk **Desktop application** efficiently managing and storing all bills
- Led the design and implementation of the application's **architecture**, establishing a clear hierarchy
- Improved a small company efficiency during selling phase increasing it by 5%

Technologies used: C++, Qt Framework

MORE PROJECTS CAN BE FOUND ON MY GITHUB PROFILE (GITHUB.COM/FILIPPOBRUGNOLARO)

Skills

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

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