

# Mirco De Zorzi

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## EDUCATION

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- **I.T.I.S J.F.Kennedy** PORDENONE, IT  
*Diploma in Information Technologies* 2016 - present

## SKILLS

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- **Languages:** Assembly (x86 and Cortex ARM), C, C++, Go, Lua, Python, PHP, JavaScript, Elisp
- **Other Tools:** Emacs, R.O.S., MongoDB, Prometheus, SQL
- **Administrative Tools:** AWS, Git, Ansible, Docker, Linux, BSD
- **Natural Languages:** : Italian (native), English (proficient), Slovakian (second language)

## EXPERIENCE

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- **Technological Systems by Moro** AZZANO DECIMO, ITALY  
*Reverse Engineering and Software Development* June 2019 - August 2019

- **Reverse Engineering:** Reverse Engineered stripped firmware for an STM32 microprocessor.
- **Development:** Developed software components for *simultaneous localization and mapping* and *automated guided vehicles* on the R.O.S. operating system. The backend is written in C++ while the frontend in JavaScript.

- **Advanced Algorithms Summer School** CA' FOSCARI UNIVERSITY, VENICE, ITALY  
*Course* July 2019

Attended a week-long *advanced algorithms* course at San Servolo International College for students qualified at the 2019 National Olympiad of Informatics. The topics ranged from dynamic programming to greedy algorithms and graphs.

- **Cyber Challenge 2019** UNIVERSITY OF PADUA AND PISA, ITALY  
*Course* February 2019 - June 2019

Qualified at a national programming challenge organized by the *National Interuniversity Consortium for Informatics* at the University of Pisa and subsequently attended a 3 months long cybersecurity course at the University of Padua with topics such as: reverse engineering, pwning, web security, and cryptography. At the end of this course participated at a jeopardy CTF hosted by the organizers of the course.

## PROJECTS

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- **hort (github.com/hort):** Data mining and indexing framework written in modern C++.
- **loki-cpp (github.com/mircodezorzi/loki-cpp):** Modern C++ driver for Loki: a log aggregation system.
- **sym:** Process scheduling and memory management tui simulator written in pure C without the use of any third-party libraries.
- **F.N.N.:** Food classification web-service written in Python using Keras and Tensorflow.
- **D.C.F.:** Android application for personal daily carbon footprint tracking written in Java with a PHP + SQL backend.

## CERTIFICATIONS

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- Cisco IT Essentials, Cisco Introduction to Networks, and Cisco Cybersecurity Essentials

## ADDITIONAL EXPERIENCE & ACHIEVEMENTS

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- Selected to participate at the *National Informatics Competition* that will be taking place May 2020 in Turin, Italy.
- Won the M.I.U.R. prize at the *National Robotic Olympics* of 2019 held in Genoa with a remotely operated drone for environmental data collection and analysis. Later presented the project at the Italian ministry of education in Rome during the national day for the environment.
- Participated at a series of international open CTFs such as FaustCTF, CincestCTF, and TyumenCTF under the NoPwnIntended team.
- Participated at 3 national Rubik's cube competitions in Milan, Verona (IT) and Bratislava (SK) with a personal best of 18.67 seconds.