

## Skills

### Programming

C/C++, Python, PyTorch, Java, JavaScript, OOP, SQL, Git

### Back-end

Node.js (basics), RESTful API, PostgreSQL, Linux / Unix

### Front-end

HTML, CSS, Bootstrap, jQuery

### Soft skills

Agile methodology, team working, problem solving, adaptability

## Work Experience

### Internship in Computer Vision

CARTKEN

Munich, Germany

Oct. 2021 - Feb. 2022

- Working on **instance segmentation** used for object tracking by an autonomous robot.
- I am in charge of the data collection, labelling pipeline, model implementation and training. The model used is **YolactEdge**

### Student tutor

TECHNICAL UNIVERSITY OF MUNICH

Munich, Germany

Oct. 2021 - Mar. 2022

- Grading students homework for the course Basic Mathematical Methods for Imaging and Visualization (IN2124)

### Research internship

UNIVERSITY OF TRENTO

Trento, Italy

Feb. 2020 - Jun. 2020

- Developed a new algorithm for **structural reducibility of multilayer networks** which is able to achieve a small improvement over the state of the art. It was tested with an implementation written using **SciPy** and **NumPy**.

## Education

### MSc in Computer Science

TECHNICAL UNIVERSITY OF MUNICH

Munich

Oct. 2020 - Feb. 2023 (expected)

- Ranked 14th university in the world for Computer Science (THE World University ranking by subject: computer science, link).

### BSc in Computer Science

UNIVERSITY OF TRENTO

Trento

Sep. 2017 - Jul. 2020

- Best Computer Science department in Italy, (U.S. News & World Reporting, link)
- Final grade:** 110 / 110 cum Laude

## Extracurricular Activities

### LeadTheFuture (link)

MENTEE

Sept. 2020 - present

- Among the few Italian students selected to be mentees for LeadTheFuture, a leading **mentorship** organization for students in STEM, with acceptance rate below 20%. It helps top-performing students to achieve their goals by giving them one-on-one guidance from high-impact mentors

### CyberChallenge.IT (link)

STUDENT

Trento, Italy

Feb. 2020 - Jun. 2020

- A **cybersecurity educational program** in collaboration with the Italian Cybersecurity National Lab. The admission rate was 12.57%.

### Samsung Innovation Camp (link)

PARTICIPANT

Trento, Italy

Nov. 2019 - Jan. 2020

- After an online qualification, I followed some lectures by Samsung and Randstad about **business innovation**. Then I completed a project work.

## Competitions

**GPT-3 Makeathon (link)**, Extracted specific information from emails and then created a smart answer using the pretrained language GPT-3. We achieved **76% accuracy on the test set**. We got **first place** in our sub track and **third place** in the overall ranking (the teams were in total 43)

Remote

**Algorithmic competitions**, I have participated to several algorithmic competitions: Google Hashcode 2019 and 2020, ITACPC 3rd warm-up round 2019, Google Code Jam 2020

Remote

**Soccer Data Challenge (link)**, sponsored by the Italian Football Federation, it was required to analyze data taken from 1941 soccer matches. We used **k-means unsupervised clustering**; my team placed in **top 12**

Trento, Italy

## Prizes

### Study Scholarships - Master Studies for All Academic Disciplines, 2021/22

DAAD

Munich

2021 - 2022

- Scholarship obtained for academic merits from the German Academic Exchange Service.

## Projects

### Machine learning for 3D geometry group project (link)

- Project on **3D semantic segmentation**, we implemented different models from the literature and we did a comparison on the results.