

## EDUCATION

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**BEng in Computer Engineering** **Imperial College London** **2017 - Present**

- **Best student** of the course (~60 students). Nominated best student in the Electronics Department (~170 students) in 1<sup>st</sup> year.
- **Maximum grade** (first-class honors) in all the subjects, with over 90% in all Computer Science subjects.

**High School Diploma** **Liceo Scientifico F. Alberghetti** **2012 - 2017**

- Graduated with **score 100/100** and a commendation. Full marks in all the exams.
- Consistent **best academic performance** among all the students in my year between 2014 and 2017.

## EMPLOYMENT

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**Software Engineer, Intern** **Facebook** **July - October 2019**

Worked in Facebook AI Research, contributing to the building and testing of a Distributed Reinforcement Learning system. Contributed to the development of new RL environments, and built analytics tools to support AI researchers. Used Python and C++ (for performance-critical parts). Used gRPC for inter-process communication.

**Full Stack Developer, Part Time** **Standard Ethics** **January - June 2019**

Designed and built a full stack, AWS based web application to support the job of Standard Ethics analysts (in JavaScript).

- Database and backend contain sensitive information and proprietary rating algorithms.
- The system provides authentication mechanisms, and multiple levels of access to data and services.

**Software Engineer, Intern** **Google** **June - September 2018**

Worked in the Google Assistant Suggestions team. Accomplished tasks include (all in C++):

- Built Trending Suggestions: use Google Search data to generate suggestions about trending topics.
- Improved quality of Suggestions for non-English languages.
- Created internal tools and improved infrastructure.

**Software Engineer, Intern** **SpecialVideo** **July - August 2016**

Feasibility study for an Optical Character Recognition (OCR) based application.

Created a tool that performed OCR readings with three different C++ libraries and compared their performances.

## PROJECTS AND ACTIVITIES

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- Built a simple **real-time multiplayer gaming platform** based on Microsoft Azure services (during a hackathon). **2019**  
Frontend: JavaScript. Backend: C# with SignalR library.
- Built a **compiler** from a subset of C to MIPS assembly and implemented a VM to run MIPS binaries (both in C++). **2019**
- Followed online courses by Berkeley University and UCL about **Neural Networks** and **Reinforcement Learning**. **2018-19**
- Built an **FPGA-based real-time computer vision system with an AI** able to challenge humans at the connect-4 game. **2018**  
The AI algorithm was implemented in Python while the FPGA was configured with a Hardware Description Language.
- Wrote a tutorial on the cutting edge **Webassembly** technology (currently has around 20 visitors per day). **2018**
- Selected for a 14-weeks project with **Facebook** to develop a Web App based on Webassembly (using JS and C). **2018**
- Project "Voglia di Informatica": **tutored** a group of pupils for around 80 hrs in preparation for the Italian Informatics Olympiads. One of my teams won a silver medal at the national level and placed fifth at the international level. **2016-17**
- Selected for **two weeks of full-immersion Algorithms & Data Structures courses** with the other top 20 Italian Informatics Olympiads contestants. The language used for competitive programming was C++. **2016**

## AWARDS

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- Included in the Imperial College Dean's List (**top 10% students** within the University) in every academic year. **2018-19**
- Selected as one of the **top 20 students in Italy** for Computer Science and related courses. **2018**
- Awarded with the IET prize for the **best student in the Electronics Department** at Imperial College. **2018**
- 13<sup>th</sup> position at Italian **Individual Informatics Olympiads** (top 0.01% over 20'000+ contestants). **2016**
- 6<sup>th</sup> position at Italian **Informatics Olympiads for Teams** (top 3% over 200+ teams). **2016**

## LANGUAGES

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Italian (native), English (fluent).