Costanza Maria Improta

UK's Top 10 Computer Science Undergraduate of 2018 by TARGETjobs and FDM

Contacts

+41 78 68 78 797
costanza.improta@live.it
linkedin.com/in/cmimp
GitHub: cmimprota

Programming Competencies

High Competence:
Java
Python
HTML5 & CSS3

Medium Competence:
PHP & MySQL
JavaScript & JQuery
SQL
C
OpenGL
LaTeX
MatLab
SoapUI
Django

Beginner:
ARM assembly
Verilog
Scala
C++
Swift
Ruby
Drools

OS

Linux (Ubuntu)
Mac OS X & iOS
Windows
Android

Tools

Azure Machine Learning
Google Colaboratory
AWS

MOOCs

CS229
CS231n
CS224d
fast.ai

Education

ETH Zürich — 09/2019 - present
MSc in Computer Science - Visual Computing track

The University of Manchester — 09/2015 - 06/2019
BSc in Computer Science with Industrial Experience - First Class Degree

Certificate of Excellence, awarded to top 10% of graduating students

- Third Year Project - "A Dense Captioning Approach to generate a Descriptive Paragraph of an Image"
- *Eventlite* - developed in a team a MVC web application for event management, using the Spring framework, Google and Twitter APIs.
- *StendhalGame.org* - as part of a team of 6 students over 12 weeks, tested, debugged, built, developed and deployed a multi-user, multi-threaded, client-server open source game containing over 6000 Java classes and 1800 test cases using Eclipse, Git, Apache Ant, Jenkins and JUnit.
- *ShelfShare* - implemented in a team a platform on which UoM students may securely trade their goods. Mainly worked on the front-end (HTML5, CSS3, Bootstrap) and coordinated my team tracking our progress on GitLab, Trello and Slack.
- Enjoyed ML, Symbolic AI (with NLP), Computer Graphics and Image Processing.
- Strong interest in Data Science and Computer Vision.

St. George's British International School of Rome — 01/2014 - 06/2015
International Baccalaureate
IB points: 39 (Top 10 % of worldwide students taking IB in 2015)

- Higher: Maths, Physics, English; Standard: Computer Science, Economics, Italian.
- Extended Essay (A) on Cryptography.

Work Experience

Software Engineer — 06/2019 - 07/2019
The University of Manchester, Manchester, United Kingdom

- Built a data-heavy, web-based application, including restricting access to certain views.
- Understood client requirements and interacted with the existing code base (Python).
- Identified missing features and access limitations.
- Designed and developed UI.

Software Engineer — 07/2017 - 07/2018
ISA Software, Paris, France
ISA Software is an Air Traffic Management Consultancy Company.

- Researched and evaluated ML models to reliably predict air traffic collisions.
- Developed and shipped an interactive simulation tool to display and analyse air traffic.
- Developed an automated track analysis and anomaly detection tool.
- Actively participated in meetings with clients.

Web Developer, Business Analyst, Italian Interpreter — 07/2016 - 08/2016
Wyng43, Hong Kong, HK
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- Designed and developed from scratch Wyng43's website.
- Facilitated the communication between Urban Spring and potential Italian partners.
- In a team, devised a functioning business model for a self-sustained Hong Kong University Challenge sponsored by BlueSky.
- In a team, proposed and implemented a model to reduce electricity consumption in their office by 30%.

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Qualifications

Google Summer of Code 2020

Google Developer Challenge Scholarship

Women Techmaker

LANGUAGES
Italian:
Native speaker
English:
IELTS
CAE
French:
DELF B1
German:
A2
Chinese:
A1

COMPUTER SCIENCE
IBM UTC Prize
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MATHEMATICS
"Best in Year" & "Silver" in UKTM (2013)
"Best in School" in Giochi Matematici 2012

OTHERS
Computer Science, Italian and English "Best in Year" awards at SGBIS in 2015

Hackathons

Finalist at HackZurich 2020

Given talks

IBAEM Regional Conference 2014

Volunteering & relevant activities

PASS 1 Coordinator — 07/2018 - 06/2019
The University of Manchester School of Computer Science

- Managed PASS sessions for 250+ year one students and their second year leaders.
- Led and ran debrief sessions for second year PASS leaders to help them develop and improve their mentoring sessions.
- This improved organizational, communication and public speaking skills.

STEM Ambassador — 01/2016 - 06/2019
STEMNET

- Organised activities and talks to inspire young students to pursue a career in a scientific subject and to narrow down the gender gap by engaging girls too.
- Worked both in a team and on my own, which gave me the chance to improve my organisational, communication and oratorical skills.

HackSoc Event Organizer — 09/2018 - present
HackSoc at The University of Manchester School of Computer Science

- Organised events aiming to bring students and tech industry closer together.

Student Ambassador, Welcome Hero & HelpDesk Assistant — 09/2016 - 06/2019
The University of Manchester

- Was a reference point for the new students, pointing them in the right direction and making them feel welcome.
- Worked in close contact with members of Academic Staff during Interview Days, talking to prospective students about my current experience, taking them for a tour of the building and answering related questions.
- Through this, I developed leadership, communication and customer service skills.

PASS Leader — 09/2016 - 06/2017
The University of Manchester School of Computer Science

- Along with my co-leader, held weekly one-hour meetings with a group of tutees from the year below, supporting their learning process through visual or kinaesthetic activities and giving advice relative to university or life issues. My leadership and communication skills benefited from this.

Treasurer — 05/2016 - 06/2017
The University of Manchester Photography Society

- Managed the society finances and ensure they are spent in the most efficient way.
- Minuted all the transactions the society carries out and plot down budgets.
- Designed and developed the society website, and managed its social media profiles.

Manchester Robot Orchestra — 11/2015 - 2016
Manchester European City of Science 2016

- Participated in the designing phase - my role was to brainstorm about the various tools and technologies that could be used in order to be time and cost-efficient. This project has also featured contributions from Siemens and The Halle Orchestra.