

Costanza Maria Improta

costanzaimprota.co.uk

Contacts

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Programming Languages

High Competence:

Java
Python
HTML5 & CSS3

Medium Competence:

PHP & MySQL
JavaScript & JQuery
SQL
C
LaTeX
MatLab

Low Competence:

ARM assembly
Verilog
Scala
C++
OpenGL
Swift
Ruby

OS

Linux (Ubuntu)
Mac OS X & iOS
Windows
Android

Software

Azure Machine Learning
Microsoft Office
Inkscape
Photoshop

Hardware

Raspberry Pi
Arduino Board

Education

The University of Manchester

BSc in Computer Science with Industrial Experience

09/2015 - 06/2019

Second Year result: 78.4%

- Enjoyed Machine Learning, Symbolic AI, Computer Graphics and Image Processing, Mobile Systems, and Distributed Systems modules.
- Strong interest in Data Science, Machine Learning, Web Development and Graphics.
- *ShelfShare* - developed in a team this 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.
- *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.
- *Eventlite* - developed in a team a MVC web application for event management, using the Spring framework, Google and Twitter APIs.

Beijing Normal University

Chinese Language and Culture

03/2016 - 04/2016

Final course result: 98.4%

- Three-week study course funded by the UK government and UoM.
- Achieved a 100% result on the final exam of my daily HSK Level 1 Chinese class.
- Visited Syntun's headquarters - understood the implications of daily processing an enormous amount of data in order to do business forecasts.

St. George's British International School of Rome

International Baccalaureate

01/2014 - 06/2015

IB points: 39 (Top 10 % of worldwide students taking IB in 2015)

- Higher: Maths, Physics, English; Standard: Computer Science, Economics, Italian.
- Computer Science Internal Assessment (100%) - a Digital School Library Service fully designed from scratch following my client's requirements and implemented in Java.
- Extended Essay (A) on Cryptography - "Which encryption method is the most suitable in modern e-commerce payment applications?"

Work Experience

Software Engineer

ISA Software, Paris, France

07/2017 - 07/2018

Web Developer, Business Analyst, Italian Interpreter

Wyng43, Hong Kong, HK

07/2016 - 08/2016

Wyng43 is a Hong-Kong-based angel investing company where I interned for two months. I also had the chance to work with two of its start-ups: BlueSky and Urban Spring.

- 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.
- Researched and identified potential clients for BlueSky.
- In a team, proposed and implemented a model to reduce electricity consumption in their office by 30%.
- Held weekly meetings and actively participated in brainstorming sessions.

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Qualifications

LANGUAGES

Italian:

Native speaker

English:

IELTS

CAE

French:

DELFB1

COMPUTER SCIENCE

IBM UTC Prize

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

Google HashCode

UCL Data Science

Student Challenge

HackManchester.com

StudentHack.com

Workshops

Arduino and the Internet

of Things

Given talks

IBAEM Regional

Conference 2014

MOOCs

Coursera:

Machine Learning

Cryptography I

Calculus I

Game Development

Volunteering & relevant activities

STEM Ambassador

01/2016 - present

STEMNET

- Organise 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.
- I work both in a team and on my own, which gives me the chance to improve my organisational, communication and oratorical skills.

Student Ambassador, Welcome Hero & HelpDesk Assistant

09/2016 - present

The University of Manchester

- During the first week of semester, I am a reference point for the new students, pointing them in the right direction and making them feel welcome.
- Throughout the year, I work 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 thus developed leadership, communication and customer service skills.

PASS Leader

09/2016 - present

The University of Manchester School of Computer Science

- Along with my co-leader, I hold weekly one-hour meetings with a group of tutees from the year below. We support their learning process through visual or kinaesthetic activities and we give advice relative to university or life issues. Thus, my leadership and communication skills benefited from this.

Treasurer

05/2016 - present

The University of Manchester Photography Society

- Manage the society finances and ensure they are spent in the most efficient way.
- Minute all the transactions the society carries out and plot down budgets for the semesters, thus improving my organizational skills and attention to detail.
- Designing and developing the society website and managing its social media profiles.

Manchester Robot Orchestra

11/2015 - present

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.

Hackathons, workshops and talks

United Kingdom, Italy

- Improved my time management and quick self-learning skills in order to make a finished functioning product during hackathons.
- Represented my school in the IBAEM Regional Conference 2014 by giving a talk on how the combination of software and secondary data lead to highly reliable scientific theories, using sunspots as an example.
- Workshops and talks give me stimuli to research more about a variety of different interesting aspects of Computer Science in more depth in my own time.