

Matteo AZZARELLI

PERSONAL DATA

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|--------------------------|-------|-----------|--|
| PLACE AND DATE OF BIRTH: | Italy | PHONE: | |
| | | WHATSAPP: | |
| CURRENT CITY: | | EMAIL: | |
| | | ENGLISH: | |
| | | ITALIAN: | |

EDUCATION

- Sep 2019 - Present* **Magistrale in INTELLIGENT AND MOBILE COMPUTING**
Computer Science, University of Perugia, Italy
- **RESEARCH PROJECT:** "Modelling of vaccinations influence on diseases spreading in complex spatial networks."
- Supervisor: Professor Alfredo Milani
- Projects:**
- *Oct 2019- Gen 2020* - **DISTRIBUTED CALCULATION AND HIGH PERFORMANCE SYSTEMS:** Building Linux Cluster one based on Condor for High Throughput Computing and an other for High Availability using Corosync and Pacemaker. Then we install and configured a Cloud computing System based on OpenStack. Finally we used OpenCL to elaborate images using parallelism on GPU.
- Sep 2018 - June 2019* **Master Of Science in ADVANCED INFORMATION SYSTEMS (STREAM: HEALTH INFORMATION SYSTEMS)**
Computer Science, Hong Kong Baptist University, Hong Kong
GPA: 3.33/4
- Projects:**
- *Apr-May 2019* - **MEDICAL IMAGE PROCESSING, ANALYSIS AND APPLICATIONS PROJECT:** research and implementation of a model in Python(Keras) for Liver Segmentation using CNN, in particular U-Net architecture. This project includes also the preprocess of the CT scans with ImageJ.
 - *Apr-May 2019* - **ARTIFICIAL INTELLIGENCE PROJECT:** development of a model using Keras able to recognise the main instrument played in a song. The data-set was a big collection of samples of instruments called MedleyDB 2.0 Audio.
 - *Sep-Dec 2018* - **RESEARCH PROJECT:** "Modelling of vaccinations influence on diseases spreading in real-world network."
 - *Nov 2018* - **DECISION ANALYSIS AND SUPPORT IN HEALTHCARE SYSTEMS PROJECT:** Develop a Clinical Decision Support System (CDSS). The front-end is supported by Sales.js while the back-end is written in Python implementing a decision tree and a KNN using Scikit-learn and Pandas.
 - *Oct-Nov 2018* - **PROGRAMMING FOR WEB & MOBILE INFORMATION SYSTEMS:** Implementation of an Event Management System comprehensive of website and Cross-platform Mobile App. We used a NodeJS framework based on REST API for the website and Ionic to develop the App.
- Sep 2015 - July 2018* **Bachelor's Degree in COMPUTER SCIENCE**
University of Perugia, Italy
FINAL SCORE: 107/110
- Projects:**
- *July 2018* - **THESIS/FINAL YEAR PROJECT:** Implementation of a tool supporting the automatic evaluation of GitHub projects. This tool, written in Java, involve the usage of API and library provided by GitHub and Stanford University.

- 2017 - SOFTWARE ENGINEERING PROJECT: This group project involves designing and developing an Android application that is able to learn and recognise gestures made with phone, using a classifier provided by the weege library.
- 2015 - VIRTUAL REALITY PROJECT: This group project involves realising a 3D Videogame written in JavaFX. A spaceship runs over a track generated automatically using songs provided by users. The Fourier transform is used jointly with hash map to extract paths from the provided music track.

WORKING EXPERIENCE

- Jen 2012 - Present* **Company Owner at MDUEA DI AZZARELLI MATTEO, Italy**
Through various projects I improved my skills including Management, Administration, Leadership and Communication. In addition, I gained experience with customer and supplier and how to interact with them.
My company business consists the following services:
- Web development & IT consultant: successfully complete 20+ web development projects; IT support from assembly to configuration and maintenance, as well as creation or integration of corporate networks.
 - computer graphic design, using CorelDraw, Photoshop and other specific software, of logos or images that will be either embroidered or printed onto souvenirs, T-shirts, flags or advertisement.

AWARDS

- Sep 2018* Awarded the MSc Fellowship by the MSc in Advanced Information Systems programme HKBU.

COURSES AND CERTIFICATIONS

- Sep 2016* Maple's Course "Using Maple for solving mathematical problems" at University of Perugia.
- Mar 2007* Autocad's course at Scientific High School "G. Marconi" - Foligno
- Sep 2005 - Mar 2008* ECDL (European Computer Driving Licence) at European Computer Driving Licence

EXTRA-CURRICULAR ACTIVITIES

- Oct 2019* Tutor of the AMAREMATICA 5TH EDITION 2019
University of Perugia, Italy
Tutor of the AmareMatica 5th edition 2019. Student of primary and secondary schools of first degree developed an App and I covered the role of Tutor in the Laboratory class.
- July 2019* Tutor of the HKBU-UNIPG VIII SUMMER EXCHANGE PROGRAM 2019
University of Perugia, Italy
Tutor of the VIII Summer Exchange Program 2019 between the Department of Computer Science of the Hong Kong Baptist University and Department of Mathematics and Computer Science of the University of Perugia held in Italy.
I designed the T-Shirt to commemorate this exchange.
- June 2019* HKBU - NATIONAL CHENG KUNG UNIVERSITY JOINT WORKSHOP 2019
Hong Kong Baptist University, Hong Kong
Theming "Collaborative Game Design for Youth Social Responsibility & UN Sustainable Development Goals", this joint design workshop aims to allow the participants to go through design thinking process, learn game design and implement their games among primary school students.

Nov 2018 Invited Speaker in CULTURAL EXCHANGE WORKSHOP
Hong Kong Baptist University, Hong Kong
Speaker and organiser in Cultural Exchange Workshop organised by Dr. Ng Tor Tai International House of Hong Kong Baptist University, Hong Kong.
This workshop is to promote the exchange between HKBU' students.
In particular, I shared the Italian culture talking about food, music, mean and famous Italian cities.

June 2018 - July 2018 Tutor of the HKBU-UNIPG VII SUMMER EXCHANGE PROGRAM 2018
University of Perugia, Italy
Tutor of the VII Summer Exchange Program 2018 between the Department of Computer Science of the Hong Kong Baptist University and Department of Mathematics and Computer Science of the University of Perugia held in Italy.
I designed the T-Shirt to commemorate this exchange.

June 2017 - July 2017 Tutor of the HKBU-UNIPG VI SUMMER EXCHANGE PROGRAM 2017
University of Perugia, Italy
Tutor of the VI Summer Exchange Program 2017 between the Department of Computer Science of the Hong Kong Baptist University and Department of Mathematics and Computer Science of the University of Perugia held in Italy.

INTERSHIPS

July 2009 - Aug 2009 Technical Office at UMBRA CUSCINETTI S.P.A. - UMBRAGROUP S.P.A., Italy
Solving industrial problems using IBM Notes, Siemens Teamcenter/NX5, Microsoft Axapta.

COMPUTING EXPERIENCE

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| Coding And Programming: <i>Tensor Flow, Keras, Java, JavaFx, C, C++, JavaScript, Python, JQuery and Frameworks, PHP, HTML, CSS</i> | Excellent command |
| Operating Systems: Linux, OS X, Windows Server/10/7/XP | Excellent command |
| Design tools: Photoshop, CorelDraw, Illustrator | Excellent command |
| LaTeX and Office | Excellent command |

Last updated: March 10, 2022

In compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.