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Born May 24, 1992  
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Nac Italian & Argentine

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## Tech Skills

### Programming Languages

*Python, C, C++, Scala, Bash.*

### Database

SQL, MongoDB

### Frameworks

*Django, Django Rest, Spark.*

### Machine Learning Libraries

*Scikit-learn, Keras, Tensorflow,  
PyTorch, OpenCV, NLTK,  
HuggingFace (Transformers  
Library, BERT, GPT).*

### Other Libraries

*Scrapy, Numpy, Seaborn,  
Pandas, Matplotlib*

### Others

*Git, SVN, Jira, Trello, Slack,  
Google Cloud, Jupyter  
Notebook, Jupyter Lab.*

### Operating System

Unix based (Ubuntu, Debian).  
Mac Os.

# Marco Moresi

Over the last 3 years, I've been working on developing backend software for web services and implementing solutions with Machine and Deep Learning using data of educational and dialogue systems. I am passionate about exploring large datasets and find insights that can be utilised to improve or create web applications and business solutions. I am constantly expanding my knowledge when creating and developing new tools and services. On my journey for personal and professional growth, I am curious to explore new opportunities and exchange different experiences in the team.

## Experience

- **Internship in Dialogue System group at HHU, Germany** | Full-Time | Sep 2019 - Present  
Under the supervision of Prof. Milica Gasic, I am working in the Natural Language Generation module for dialog systems. My main task is to evaluate different models on different metrics to understand what is the best method to generate language for dialogs. Technologies used: Python, PyTorch, TensorFlow, HuggingFace.
- **Researcher in Machine Learning, OTTAA Project** | Full-Time | Jan 2019 - Aug 2019  
OTTAA Project is a startup funded by governmental and private entities from Chile and Argentina. The startup mission is to help impaired people to communicate.
  - Developed the software for a Headband Prototype with an augmented dialogue system for people with Amyotrophic Lateral Sclerosis (ALS)
  - Performed tests with more than 20 patients with ALS
  - Developed an algorithm for feature extraction and detection of evoked potential in a speller BCI<https://www.ottaaproject.com/>
- **Data Scientist at Deep Educational Data Analysis** | Full-Time | Nov 2018 - Jun 2020  
Research project at Universidad Nacional de Cordoba.
  - Built a 1 million entries dataset based in an open web-based coding tool named Mumuki with more than 150.000 users
  - Built Machine Learning and Deep Learning models to predict when a student is going to give up an exercise. Achieving 81% of F1 Score
  - Publication in *IEEE Transactions on Learning Technologies* submitted and approval pending<https://github.com/uncmasmas/DEDA>
- **Freelance Backend Developer, SocialBits** | Freelance | Dec 2016 - Jun 2020  
SocialBits is a startup based in Cordoba, Argentina that has developed personalised websites for different clients.
  - I was in charge of the backend develop using Python and Django
  - More than 25 web sites deployed
  - More than 1000 users reached on average in each website<https://www.socialbits.net/>
- **Backend Developer, MuyShopper** | Full-Time | Apr 2016 - Apr 2018  
MuyShopper is a startup based in Cordoba, Argentina funded by the Universidad Nacional del Cordoba and the Argentine Chamber of Electronic Commerce. It was the first startup to develop an Argentinean price comparator for home appliances
  - Developed the API with Django rest
  - Developed +50 crawlers for data collection to be provided in the API<https://www.muysshopper.com/>

# Skills

## Soft Skills

Teamwork, Presentation,  
Goal Focus, Resilient,  
Adaptability.

## Language Skills

Spanish (Mother tongue)  
English (Proficiency)  
German (learning)  
Portuguese (basic)

# Drivers

## Values

Transparency, Honesty,  
Openness, Team before  
Self, Constant Learning

## Interests

Technology, Artificial  
Intelligence, Teaching,  
Rugby, Travelling.

- **Outreach program member UNC plus plus** | Full-Time | March 2014 - Dec 2016  
The goal of this program was to improve K-12 education for low resource students and teachers.  
-Developed a web platform to program a robot, based on Arduino with a block based programming language  
- This program is used by more than 50 schools reaching a total number of approximately 1500 users  
<https://github.com/uncmasmas>

# Education

## Master in Computer Science (M.Sc.)<sup>1</sup> - Computer Science

Facultad de Matematica, Astronomia, Fisica y Computacion (FAMAF).  
Universidad Nacional de Cordoba, Argentina | March 2019

**Topic of the thesis:** *Automatic modelling of learning paths: When to generate formative feedback for beginners in programming?* Dissertation Mark: 10/10.

## Bachelor in Computer Science (B.Sc.)<sup>2</sup> - Computer Science

Facultad de Matematica, Astronomia, Fisica y Computacion (FAMAF)  
Universidad Nacional de Cordoba, Argentina | Sep 2016

# Personal Scholarships and Awards

## Completion Masters scholarship funded by Google | 2018

Workplace: Facultad de Matemática Astronomía Física y Computación. Universidad Nacional de Córdoba.

## Outreach scholarship financed by the outreach program UNC plus plus. | 2015 -2016

Universidad Nacional de Córdoba.

# Optional and Postgraduate courses

Automatic Dialogue Processing, FAMAF - UNC. | 2019

Natural Language Processing, FAMAF - UNC. | 2019

Machine Learning by Stanford University on Coursera, Andrew Ng ([coursera.org](https://www.coursera.org))

Mark obtained 96,1/100. | 2018

Neural Networks, FAMAF - UNC | 2018

Machine Learning for Computer Vision, FAMAF - UNC | 2017

Distributed Programming on Large Volumes of Data, FAMAF - UNC | 2016

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<sup>1</sup> The Computer Science Masters Degree in Argentina is "Licenciado en Ciencias de la Computación"

<sup>2</sup> The Computer Science Bachelor Degree in Argentina is "Analista en Ciencias de la Computación"