Stefano Ivancich *(Updated 23/11/2019)*

- **Current employment:** **MSc student in Computer Engineering at University of Padua**
- **Place and date of birth:** 17/10/1995, Venice, Italy
- **E-mail:** ivancich.stefano@gmail.com
- **Cell phone:** +39 366 9791022
- **Domicile:** Mestre (Venice, Italy)
- **Web Site (portfolio):** www.stefanoivancich.com
- **GitHub** ivaste
- **Skype** ste.iva
- **LinkedIn** stefano-ivancich

Professional Experience

Padua, Italy
02/2019 - 07/2019

Machine Learning intern (Thesis) at University of Padua
Developed a DeepLearning-based system which, given a MRI (Magnetic Resonance Image) of the brain, returns the probability of contracting Alzheimer's disease in the coming years.
The main challenges were to deal with the MRI images that are 3-dimensional, the small dataset and the small computational power given to us.
Results: 75% of accuracy.
Technologies used: CNN and MATLAB
Thesis & Project Link: github.com/ivaste/AlzheimerPrediction

Venice, Italy
11/2018 - 01/2019

Part-time remote Software Developer at WeStudents
Developed a Gateway SMS API service which converts an API request to an SMS. The aim of this system is to send SMS to WeStudents users, e.g. for subscription, forgotten password, etc.…
Sending SMS through this service **cost 20 times less than any other** API services online, for an overall **cost savings of 95%.**
Technologies used: NodeJS, Express, Socket.io and Android.
Project Link: github.com/ivaste/GatewaySMS

Marcon, Venice, Italy
06/2014 – 07/2014

Intern at Eng. Diego Medici's Studios:

- Android software development.
- Hardware and software development with Arduino.
- 3D Model design with SolidWorks.

Project 1: Designed an electronic device of a device for the attendance recording of employee. This device was composed of an Arduino YUN, an RFid Reader, an LCD display, an RTC counter. It is also connected to an application on a server that manage the survey of working hours. I also worked on the 3D modeling of the case.
Project 2: Designed an attendance system with GSM and GPS tracking connectivity and developed an Android app that interfaces with it, for detecting its position via SMS message exchange.
Reference: www.studio-medici.it 041 5952361, Eng. Diego Medici.
Main project Link: stefanoivancich.com/?p=303

Education

Padua, Italy
Oct 2019 - *present*

Computer Engineering MSc at University of Padua.
Focus on Machine Learning
1st semester Modules:

- Automata, Languages and Computation
- Machine Learning
- Operation Research 1

Padua, Italy
Oct 2015 - *Jul 2019*

Computer Engineering BSc at University of Padua.
Main Courses: Artificial Intelligence, Database design, Data structures & algorithms, Operative Systems, Project Management, Computer architecture, Control Theory, Circuit theory, Linear Algebra, Calculus, Physics 1 & 2 ...
Thesis: Alzheimer diagnosis with DeepLearning. Link
Main Projects:

- Home Renting: Database design for a home renting system.
- TakeThePill: Android app for drugs assumption reminder.

Other works:

- Fake news detection algorithms study made for AI course. Link
- Lecture notes for the Project Management course. Link
- Lecture notes for the Database Design course. Link
- Lecture notes for the Operative Systems course. Link
- Lecture notes for the Embedded Systems course. Link
- Lecture notes for the Computer Networks course. Link
- Lecture notes for the Artificial Intelligence course. Link
- Lecture notes for the Discrete Calculus course. Link
- Lecture notes for the Probability course. Link
- Lecture notes for the Business Administration course. Link
- Lecture notes for the Electronics course. Link
- Lecture notes for the Deep Learning course. Link

Mestre, Venice, Italy
Sep 2010 – Jun 2015

High School, ITIS C. Zuccante
Courses: Digital & Analogic Electronics, Electronic design, Systems and controls, Math, Physics, Italian history & literature.
Thesis: Sensor network for forest fires detection. Link

Educational Experience

Coursera
Aug 2018 - Sep 2018

Deep Learning Specialization by deeplearning.ai
5-course on deeplearning held by Prof. Andrew Ng, for a total duration of about 160 hours.
Content: How to build neural networks, how to lead successful machine learning projects, Convolutional networks, RNNs, LSTM, Adam, Dropout, BatchNorm, Xavier/He initialization, and more.
Case studies from healthcare, autonomous driving, sign language reading, music generation, and natural language processing. Practiced all these ideas in Python and in TensorFlow.

- Neural Networks and Deep Learning (License 8HXHDAXH6NVR)
- Improving Deep Neural Networks (License 8QFCE2CAM9N6)
- Structuring ML Projects (License MBWQCWRR546S)
- Convolutional Neural Networks (License 3L89CHVVM8WT)

	• Sequence Models (License UX6M6PRE4DWZ)
Mestre, Venice, Italy Feb 2015 – May 2015 	Project **TEKNE – "Web Services mobile search: study and applications"** funded by the European Social Fund. Design and implementation of a system that allows you to: • View on your smartphone the parking availability in the proximity; • Book a parking space in the parking lot and chose to manage permissions and input events and output; • Representing the process, by means of a model car that moves in a simulated urban center. Technologies used: Arduino, Bluetooth, Spring MVC, REST, DBMS object.
Mestre, Venice, Italy Oct 2012 – Apr 2014	**Team Leader** of the institute team for the provincial, regional and national robotics competitions **RobocupJR.** Project link: http://stefanoivancich.com/?p=178
Mestre, Venice, Italy Oct 2013 – Jan 2014	**LPI Linux Essential Course** (Preparation for International Certification). 16 lessons made of 3 hours each, at High school **ITIS C. Zuccante.**

Languages

Italian	Fluent, Native.
English   	Fluency in reading, writing, listening and conversation. • **BESTR** Certification **B2** level. Link • **PET** Certification B1 level. (License 146IT0195043) ***2017-Present*** - **C2** level English course at Oxford School Mestre (35 lessons of 1.5h every year). ***2015-2017*** - **C1** level English course at Oxford School Mestre (35 lessons of 1.5h every year). ***2013-2015*** - **B2** level English course at Oxford School Mestre (35 lessons of 1.5h every year). ***2014*** - Linguistic Stage 1 week in London. ***2012/13*** - **B1** level English course at Oxford School Mestre (35 lessons of 1.5h).

Computer Science skills

Machine Learning	Good knowledge of **Python, TensorFlow, MATLAB, CNN and RNN**
Coding skills	Good knowledge of **Java, C/C++, VisualBasic .NET, Assembly (ARM and PIC)**
Front & Back-End skills	Good knowledge of **HTML5, CSS, Bootstrap4, PHP, SQL, PostgreSQL, MySQL, Wordpress.** Familiarity in the use of **JavaScript and NodeJS**.
Software Develop. tools	**IDE Android Studio** **Visual Studio Code, SublimeText 3, Notepad++** **Jupyter Notebook** **GIT (GitHub and GitLab)** **Docker**

	Kubernetes **FileZilla** **MATLAB for DeepLearning** **Slack, Trello** **IDE Arduino** **IDE MPLAB Assembly** **IDE LabView**
Electronics Design tools	Autonomy in the use of **Eagle, KiCad, Fritzing**. Familiarity in the use of **Altium Cad Designer**.
Other tools	Autonomy in the use of: **Linux Ubuntu, Fedora** **Oracle Virtual Box** **Microsoft Office Word, Power Point, Excel**

Organizational and communication skills

I really care about giving great attention to detail and order. I love to work with strictness and autonomy for pleasure and satisfaction to do it.
In all projects carried out so far, both academic and professional, I always based my work on teamwork, setting it in the most professional way possible using project management techniques (e.g. Agile, requirements analysis, feasibility studies, Gunnt diagrams ...).
I often use apps like Slack, Google Drive, Google Calendar, Google Keep, Excel, GitHub on both PC and smartphones/tablet to better organize my work / study.
About my communication skills: I always try to be kind, calm, polite, friendly and motivate people around me.

Interests

I have great enthusiasm and desire to make new experiences, get involved in something, test my limits, move out of the habitual context, and constantly pursuing my way with determination.
I am currently interested in: Innovation, Digital trends, Machine Learning, Start-Ups, management, business, videogames, piano, fitness.
Spending my free time reading books, studying and developing apps and ML algorithms to solve problems that I face in everyday life.

I authorize the use of my personal information - D.Lgs. 196/2003