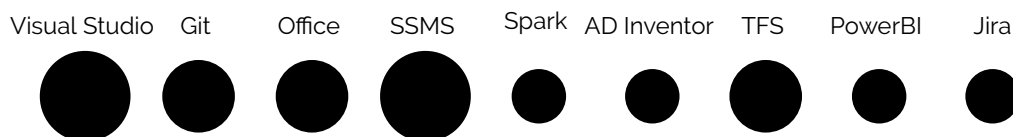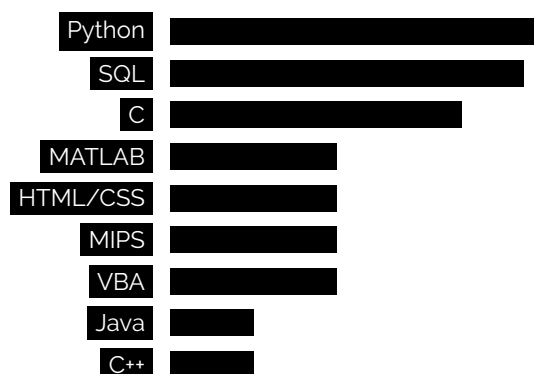# SIMONE RIGONI
Technical Consultant

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- medium.com/@simone.rigoni01
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- simonerigoni.net

WHO AM I?

I graduated in Computer Engineering - Embedded and Control Systems at the University of Pavia in 2017. During my Erasmus Traineeship in Dublin I worked as Software Developer at Firmwave, a young company specialized in the design of low-power hardware for IoT. I took part in the design and implementation of new features in both the bootloader and the application using C. I got passionate about Python and how to use data to solve problems so I decided to completely change my working field approaching Data Science. I started working in 2017 as Technical Consultant at Aptos which provides tools to retail enterprises to deliver omni-channel shopping experiences to customers. In 2019 I graduated from the Udacity Data Scientist Nanodegree Program. I write about Machine Learning and Data Science topics on Medium and I have recently built my website simonerigoni.net as a common platform for my projects

Skills bar chart:
- Python
- SQL
- C
- MATLAB
- HTML/CSS
- MIPS
- VBA
- Java
- C++

Tools: Visual Studio · Git · Office · SSMS · Spark · AD Inventor · TFS · PowerBI · Jira

EXPERIENCE

10/2017 – Currently
Technical Consultant — Aptos
I develop T-SQL functionalities on Microsoft SQL Server (Database Engine and Analysis Services) using Management Studio, Profiler, Visual Studio and Team Foundation Server to import, process and export data to fulfill the steps of retail process such as Merchandise and Financial Planning, Assortment Plan, Forecast and Store Replenishment. Performances are a key aspect of my work because of the high volume of data used by these business process. I have been involved also in the recruiting phase for the technical interviews and in the tutoring of new hires

06/2017 – 12/2017
Waiter — Corrado Calza Food & Co.
While studying I worked as waiter for fashion events like catering for boutiques and fashion shows

09/2015 – 07/2017
Tutor — Plinio Fraccaro College
Tutoring regarding Computer Science and C programming for my fellow students of the college

03/2016 – 06/2016
Software Developer — Firmwave
During my Erasmus Traineeship with Firmwave I took part in the design and implementation of Over-the-Air programming (OTA) on a device based on STM32F4 MCU (equipped with ARM Cortex M4), implementing new features both in the bootloader and in the application, so that it could download updates from remote servers and reprogram itself. The code was written in C, with an open source toolchain based on GCC ARM + Eclipse + OpenOCD. I also took part in the development of Python based scripts for automated testing purposes

EDUCATION

10/2014 – 10/2017
Master's Degree (LM-32) in Computer Engineering - Embedded and Control Systems University of Pavia
The degree program includes courses in electrical engineering, electrical drives and automation, advanced control systems, industrial automation, process control, robotics, embedded systems. The lessons, held in English, are complemented by laboratories activities, seminars and tutorials
100/110
Thesis: Design and implementation of a Bluetooth based indoor localization system for the sport domain

09/2011 – 12/2014
Bachelor's Degree (L-8) in Computer Engineering University of Pavia
The degree course covers various fields such as mathematics, physics, information technology, automation, electromagnetism, electronics and telecommunications
95/110
Thesis: Stable stationary flight of a quadcopter

09/2007 – 07/2011
Diploma ITIS - Informatics and Telecommunications ITIS Enrico Fermi of Mantova
The course provides basic knowledge in computer science and electronics, in order to develop the skills necessary to analyze, size, manage and design small systems for process data
73/110
Thesis: On line management of an electronics store

OTHER ACTIVITIES

01/2019 – 10/2019
Data Scientist Nanodegree Udacity
The Data Scientist Nanodegree program is an advanced course designed to prepare the student for data scientist jobs. The topics covered were Supervised Learning, Deep Learning, Unsupervised Learning, Data storytelling, Software development and Recommendation Engines. All the theoretical lessons were followed by quiz and projects that can be found on Github

Capstone Project: User churn prediction using Spark

06/2019 – Currently
Content Writer Medium
I started writing for Medium through the Data Scientist Nanodegree and got passionate about it. I usually publish my stories on Towards Data Science and Analytics Vidhya which are some of the biggest platforms for data science topics. All my stories can be found on Medium and on my website simonerigoni.net is possible to interact with some of the projects I have written about. One of the latest project I made: "Do you want to move to Milan? Neighborhoods Sentiment Analysis using Airbnb data"

09/2016 – 07/2017
Conference organizer Plinio Fraccaro College
I was coordinating the organization of conferences and others cultural events. Beside the planning activity I helped promoting the events through local newspapers and social media. I was also one of the main promoters of multidisciplinary conference "Artificial Intelligence techniques, applications and problems" which was designed to introduce and look at artificial intelligence from the point of view of various disciplines such as engineering, philosophy, law and computational linguistics

09/2018 – 09/2018
Publication: A Comparison of RSSI Filtering Techniques for Range-based Localization IEEE
Received Signal Strength Indication (RSSI) is commonly used to provide distance estimates in range-based localization. Usually the localization systems use RSS at short range and RSS alongside other techniques such as Time of Flight (ToF) where the distance estimates are less reliable. For more information IEEE Explore

LANGUAGES

Italian - Native
English - Proficient
Spanish - Rudimentary

HOBBIES

I like to travel and visit cities of art. I am passionate about powerlifting, cinema, motor races, comics and chess

NON PROFIT

AVIS (Italian Volunteer Blood Donation Association) Pavia member since 2016. Runner for AISM (Italian Multiple Sclerosis Association)