PERSONAL INFORMATION

Luca Fontanili

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Ⓢ luca.fontanili

⬤ https://github.com/lucafon

Sex Male | Date of birth 22/01/1990 | Nationality Italian

WORK EXPERIENCE

Jan 2020-Present

Innovation Area Manager
Cedacri S.P.A., Collecchio, PR

▪ Manager of "Innovative Solutions Incubator" Area: main responsibilities R&D, Machine Learning, Data & Analytics, Cloud Journey

Business or sector Data Science, Machine Learning, R&D, Cloud

Jan 2019-Jan 2020

Senior Engineer ML – Data Scientist
myInvenio S.R.L., Reggio Emilia

▪ R&D Process Mining: applying Machine Learning models to Process Mining
· Speaker at the BPM Next 2019 event
· Continuous Integration/Continuous Delivery with Docker, AWS and Sonarqube
· Full-stack Data Scientist: study, evaluation and put-in-production of different Machine Learning model to enhance the insights gathered with MyInvenio

Business or sector Data Science, Machine Learning, Process Discovery & Mining

Mar 2015-Jan 2019

Computer Engineer – Software Development Leader
Ubiq S.R.L. – SIA Group, Parma/Milan

▪ Software Development Leader, coordinator of the Back-End development team
▪ R&D Big Data: use of Cloudera Stack (HDFS, HBase, Solr, Hive, Impala)
▪ R&D Machine Learning: Study and development of a predictive model that finds similarities between texts of different images using Text Mining and ML techniques
▪ R&D Computer Vision: Development of a server-side binarization algorithm of raw receipt images using different image processing approaches using OpenCV in Python

Business or sector Computer Engineering, Big Data, Machine Learning

Aug 2014-Feb 2015

Software Engineering Intern
Datalogic ADC Inc, 55 W Del Mar Blvd, Pasadena (CA)

▪ R&D Computer Vision: working on the parallelization of a Computer Vision algorithm (Zero Mean Normalized Cross-Correlation), using the NVIDIA CUDA framework on a GPU embedded in a SoC (Tegra K1)
▪ Development of testing programs for Computer Vision software solutions using Python

Business or sector Computer Vision

EDUCATION AND TRAINING

| Sept 2012-March 2015 | **Master's Degree in Computer Engineering** | QEQ7 |

University of Bologna, Bologna

Thesis Development of parallel processing approach to compute Zero-mean Normalized Cross-Correlation. CUDA framework has been used to develop a fast approach to detect characters in images, using the Template Matching approach, based on Zero-mean Normalized Cross-Correlation measure.
Final Grade 110/110 with Honours

| Sept 2009-July 2012 | **Bachelor's Degree in Computer Engineering** | QEQ6 |

University of Parma, Parma

Thesis A Machine Learning project based on arm gesture recognition and humanoid imitation. Arm gestures are acquired by inertial motion sensors and modelled in an OpenGL 3D virtual space. A new method based on Functional Principal Component Analysis is used in MATLAB for both a supervised clustering of training data and gesture recognition. Recognized gestures are imitated by a small humanoid robot
Final grade 107/110

PERSONAL SKILLS

Mother tongue(s)   Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
C2	C2	C2	C2	C1
TOEFL iBT, 99/120				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills   Good communication skills gained by holding public speeches about Machine Learning's topics together with the Data Science Group in Parma

Organisational / managerial skills   Excellent social/organisational skills acquired during my experience as Team Leader. During my time in Ubiq I had to completely manage different projects with many clients, organizing work packages and distributing them across the team members.

Job-related skills   Knowledge of Design Patterns
Programming languages: Java, Python
IDE: IntelliJ, Eclipse, Jupyter, Zeppelin
Technologies: Hadoop, Spring
Cloud Computing: AWS
Agile: Kanban, Jira, SVN, Git, Bitbucket

Other skills   ▪ Sport: American Football, 4 years in the Parma Panthers, playing with American coaches and players. Participation in European Championship with the Italian National American Football team

Driving licence   B (own car)

ADDITIONAL INFORMATION

Publications   Arm Gesture Recognition and Humanoid Imitation Using Functional Principal Component Analysis,
J. Aleotti, A. Cionini, L. Fontanili, S. Caselli,
IEEE/RSJ International Conference on Intelligent Robotics and Systems (IROS),
Tokyo, November 2013

Personal details   In compliance with 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.