PERSONAL INFORMATION   Luca Fontanili

📍 7, Via Italo Pizzi, 43123, Parma, Italy

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✉ luca.fontanili93@gmail.com

○ https://github.com/lucafon

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

WORK EXPERIENCE

Dec 2021-Present — **Technical Consultant**

JEM Tech, Parma, PR

▪ Development Leader and consultant: Computer Vision algorithms

Business or sector Computer Vision, Health

June 2021-Present — **Technical Product Manager**

IBM, Reggio Emilia, RE

▪ Product Manager for IBM Process Mining: roadmap definition of the product, strategy development within IBM and with business partners

Business or sector Process Mining, Machine Learning, Business Automation

Feb 2020-June 2021 — **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
▪ Kubernetes Application Developer
▪ Big Data Administrator and Developer

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

Feb 2019-Feb 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
▪ Full-stack Data Scientist: DevSecOps (Docker, CI/CD, AWS), Machine Learning

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

Mar 2015-Feb 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, Machine Learning (Text Mining), Computer Vision

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	
C2	C2	C2	C2	C1
TOEFL iBT, 99/120				

English

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. Daily interactions with customers/analysts, as well as executives and program managers. Leader by example.

Job-related skills   Knowledge of Design Patterns
Programming languages: Java, Python
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.