

PERSONAL	INFORMATIONS

Davide Donno



Gender Male

Birthdate 07/01/1997

Nationality Italian

PROFESSIONAL OBJECTIVE	Work in the following environments: Machine Learning, Computer Vision and Data Science			
PROFESSIONAL EXPERIENCES				
2016 – up to date	Work on Projects			
	I work on multiple projects related to the university in which I study, as underlined in the section "Additional Information: projects"			
EDUCATION AND TRAINING				
21/09/2019 – (planned) 04/2022	Graduating in Computer Engineering University of Salento, Innovation Engineering Department			
	University of Salento, Innovation Engineering Department			
	University of Salento, Innovation Engineering Department Lecce-Monteroni Street, Lecce, Italy			
	Lecce-Monteroni Street, Lecce, Italy			
	Lecce-Monteroni Street, Lecce, Italy General			
	Lecce-Monteroni Street, Lecce, Italy General • Proficiency in Big Data Management			
	Lecce-Monteroni Street, Lecce, Italy General Proficiency in Big Data Management Proficiency in Software Engineering			
	Lecce-Monteroni Street, Lecce, Italy General Proficiency in Big Data Management Proficiency in Software Engineering Proficiency in Internet of Things			
	Lecce-Monteroni Street, Lecce, Italy General Proficiency in Big Data Management Proficiency in Software Engineering Proficiency in Internet of Things Proficiency in System and Network Programming			
	Lecce-Monteroni Street, Lecce, Italy General Proficiency in Big Data Management Proficiency in Software Engineering Proficiency in Internet of Things Proficiency in System and Network Programming Proficiency di Decision Support System Proficiency in both Sequential and Parallel Algorithms and Data			



09/2015 – 28/02/2019	Graduate in Information Technology, grade: 110/110 cum Laude						
	University of Salento, Innovation Engineering Department						
	Lecce-Monteroni Street, Lecce, Italy						
	www.unisalento.it						
	General • Skills on Software Design Principles						
	Skills on Software Design PrinciplesSkills on UNIX-Like Operating Systems						
	Skills on Computer Networks						
	Skills on Automation Fundamentals						
	Skills on Communication Fundamentals						
	Proficiency on Physics and Maths						
Proficiency on Probability Theory and Statistics							
09/2010 – 07/2015	High School Degree, grade: 88/100						
	Scientific Lyceum Cosimo De Giorgi, Lecce (Italy)						
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PERSONAL PROFICIENCIES							
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Native Language	Italian						
Other Languages	UNDERSTANDING		ORAL PRODUCTION		WRITTEN PRODUCTION		
	Listening	Reading	Interaction	Oral Production			
English	C2	C1	C1	B2	B2		
Communication Proficiency	Coordination and cooperation in several projects developed during my career as a master's degree student at University of Salento with colleagues.						
Organization and Management Competencies	I have been leading actor of the management of many projects developed for exams as well as personal scopes. I defined deep in detail all the use cases referring to the problem faced and using all the technologies as well as my proficiencies (Neural Networks, Web, Mobile, Cloud, Embedded, CMS). In addition, when developing solutions for assigned projects, I enjoy using several tools which help me in organizing my work, such as Trello and Notion, while documenting all the design steps.						



Professional Skills

Good skills in:

- Desing and implementation of Machine Learning pipelines in Python
- Computer Vision tasks
- Design both Relational and Non-Relational Databases
- Manage Spring REST Servers
- Design both Web and Mobile architectures
- Development of plugins for CMSs
- Configure Cloud environments
- Embedded systems

Programming Languages

• Typescript, Javascript, HTML5, CSS, Python, C, Java, SQL, Shell Bash, STRIPS, AMPL Libraries

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Tensorflow, Pytorch, Keras, MPI, Scikit-Learn, Pandas, Numpy

Frameworks

Ionic, Angular, Bootstrap

Container Managers

Docker (basic setup and management)

Database

MySQL, SQLite, MongoDB

Content Management System

- Drupal
- External APIs
 - API Google Maps Javascript, Reverse Geocoding

Cloud Technologies

Amazon AWS, Amazon S3, Google Firebase, Microsoft Azure IoT Hub

Used Software

 Intellijldea, WebStorm, CLion, PyCharm, XCode, GitHub, VSCode, BBEdit, Jupyter Notebook, Google Colab, SQLite Studio, MySQL Workbench, Spring Tool Suite, Postman, STM32Workbench, Eclipse, Scene Builder, Docker, Coppelia Sim, Cisco Packet Tracer, Trello

Graphical Tools

- App moqups, Balsamiq
- Draw.io for both UML and ER/MR diagrams

Digital Proficiency

AUTOVALUTAZIONE						
Elaboration of Informations	Communication	Content Creation	Security	Problem Solving		
Intermediate User	Advanced User	Intermediate User	Advanced User	Intermediate User		

I know and I use to daily exploit a variety of instruments for project and document versioning. I acquired these skills during my university career:

- Documents: Microsoft Word, Pages, Google Docs
- Spreadsheets: Microsoft Excel, Numbers, Google Spreadsheets
- Presentations: Microsoft Power Point, Keynote
- Notion for notes and documents management
- Trello for task management
- · Git for code versioning during team projects

Driving license

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ADDITIONAL INFORMATION

Certifications

IELTS certification obtained on 22nd June 2019, average grade: 7.0/9.0



Projects (chronologically ordered)

- Java standalone design and implementation for a Multipurpose Sports Center (Software Design Principles exam)
- Both Mobile as well as Web Geolocation application for Automatic External Devices (AED) (Bachelor's degree thesis)
- Architectural design and implementation of a content (text or voice) management system based on indoor and outdoor geolocation. In this case Angular have been used. (Additional work)
- Architectural design and implementation of a multiuser system for urban security. Front End was developed in Angular and Ionic, and a Springboot REST Server for the back end (AWS for SQL and MongoDB databases hosting. S3 for image management and Firebase for notification management). (Software Engineering exam)
- Architectural Design and implementation of a Telemetry System of Cold Chain management for biodegradable products. Embedded device used was a STM32 Discovery of STMicroelectronics. Through Wi-Fi connection, the device could send a series of telemetry informations acquired from on-board sensors. The information then was conveyed to a previously configured Microsoft Azure IoT Hub. (Internet of Things exam)
- Design and implementation of Drupal plugin to configure a Content Management System to support distance learning. It has been designed a relational database, through Materialized Table approach. Springboot Backend, through several stored procedures, exchanged both configuration and data information with the main drupal backend. An Angular Front End has been provided, too. (Big Data Management exam)
- I worked on an application that involved all my software design competencies acquired during my studies. The application makes use of lonic, and an SQLite database embedded in it. The application permits to IBS affected patients, to manage their daily diet, keeping track of their meals as well as their symptoms, enhancing the correlations between food, stress, and IBS disease. (personal interest)
- Pytorch U-Net implementation for Gland Instance Segmentation of Colorectal cells in patients affected by Adenocarcinoma. In this project has been widelyused Google Colab for training and inference of the model. In particular, both offline and online data augmentation techniques have been deeply discussed and compared. (Computer Vision exam)
- Parallel design and implementation of Count Sketch Algorithm, using parallel message passing C library, MPICH. (Parallel Algorithms exam)
- Polynomial and Multivariate regression analysis and application of Kalman Filter to Covid-19 spread and development, using SIR compartmental model. In this case, it has been used Jupyter Notebook as well as Google Colab for Linear Multivariate Regression analysis and Kalman filter implementation. (High Performance Computing exam)
- Fire Weather Index map generation on EURO-Cordex domain with Machine Learning approaches. Tensorflow libraries have been deeply studied and applied for this work. A modified Pix2Pix GAN architecture has been implemented for the purpose, applying several techniques to make the model Physics Informed.

Interests

- Data Science
- Machine Learning and AI
- Computer Vision
- Internet of Things
- Data Analytics and Big Data
- Cyber Security
- Operating Systems
- Videogame Design

ATTACHMENTS

- IELTS certification of 22nd June 2019
- Bachelor's Degree in Information Technology at University of Salento. 28th February 2019