

PERSONAL INFORMATION



Sonia Scardigno

San Giorgio Ionico (TA), Italy

scardignosonia@gmail.com

Sex Female | **Nationality** Italian

EDUCATION AND TRAINING

2017 – 2020

Master of Science in Computer Engineering

University of Salento, Lecce (Italy)

Final Mark: 110/110 cum laude (with honors)
 Master Thesis in High Performance Computing
 Thesis title: A Decision Support System for fire danger prevention and monitoring
 Supervisor: Giovanni Aloisio (Full Professor)

- Course held entirely in English
- Course of study that aims to deepen the different application areas of Computer Engineering (Data Science, Software Engineering, Network Technologies, Robotics and Controls, Parallel and High-Performance Computing)

2013 – 2017

Bachelor's Degree in Information Engineering

University of Salento, Lecce (Italy)

Final Mark: 98/110
 Experimental Thesis in Software Design Principles
 Thesis title: Experiment of a Blockchain for the Internet of Things: Technology and Platform
 Supervisor: Luca Mainetti (Full Professor)

- Course of study that aims to provide adequate knowledge both in basic subjects such as mathematics and physics and in the field of Computer, Electronic, Telecommunications and Automatic Engineering.

2008 – 2013

Environmental Scientific High School Diploma

Liceo Statale Archita, Taranto (Italy)

Final Mark: 100/100

PERSONAL SKILLS

Mother tongue(s)

Italian

Foreign language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	B2	B2	B1
Cambridge ESOL Entry Level Certificate in ESOL International				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills

- Advanced communication skills developed during my experience in the university environment.

Organizational / managerial skills

- Good organizational and managerial skills, thanks to my experience of collaborating with other students for the development of university projects

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
 Digital skills - Self-assessment grid

ECDL (European Computer Driving Licence)

Acquired computer skills:

- Good knowledge of the programming languages Python, Java, C ++, C, JavaScript, TypeScript, etc.
- Strong capabilities to implement web sites with HTML, CSS
- Good knowledge of Time Series databases (InfluxDB, Prometheus)
- In-depth knowledge of the Grafana open source multiplatform for interactive data analysis and visualization and tools for integrating dashboards into web applications
- API (RestAPI, GrafanaAPI)
- Good ability to design and implement a database (MySQL, Access)
- Extract / Transform / Load (ETL) procedures for the acquisition of data from wireless sensor networks (e.g., Tree Talker Fire)
- Good knowledge of the WRF model (Weather Research and Forecasting model) for forecasting weather maps and related formats (NetCDF)
- DSS based on IOT technologies (e.g., Tree Talker Fire) specialized for the prevention and monitoring of forest fires (wireless sensor networks, monitoring, video surveillance with IP cameras and Parrot Bluegrass drones, ...)
- Agile / Scrum competence
- Framework for web and mobile apps like Angular, Flutter, etc.
- Design and UML
- Blockchain and Smart Contracts
- Excellent use of the Office package (Word, PowerPoint, Excel, ...) certified by the achievement of the ECDL

ADDITIONAL INFORMATION

Projects

- Master Thesis in Computer Engineering “A Decision Support System for fire danger prevention and monitoring”, 2020.
- Experimental Thesis in Information Engineering “Experiment of a Blockchain for the Internet of Things: Technology and Platform”, 2016.
- Software Engineering project for the design and development of a web and mobile app for the management of goods and services, 2020.
- Robotics project “Mecanum Wheeled Rover: a ROS implementation”.
- Business Intelligence project “Part of Speech Tagging”.
- Advanced Control Techniques project “Development and Implementation of a Trajectory Planning node in ROS”.
- Image Processing project “Real time face recognition and emotion detection”.
- High Performance Computing project “IoT platform for olive groves monitoring”
- High Performance Computing project “Monitoring of application and infrastructural metrics with Grafana”

Conferences
 Certifications

- IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS), 2017
- Certificate on "LA FORMAZIONE GENERALE SUI TEMI DELLA SALUTE E SICUREZZA SUL LAVORO"

According to privacy laws (L.D. 196/2003), I authorize the collection of my personal data. I will provide the courses documentation if necessary and anything that might be useful to support the information contained in this résumé.

Date: November 16, 2020

Sonia Scardigno