







PERSONAL INFORMATION

Cristiano Aguzzi



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-  <https://github.com/relu91>

Sex Male | Date of birth 14/11/1991 | Nationality Italian

JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR
PERSONAL STATEMENT

Research internship on Web of Things or related field. Preferably, I would like to work on Thing lifecycle or Thing discovery.

WORK EXPERIENCE

April 2017 – Today

Consulting

Advanced Research Center on Electronic system “Ercole De Castro” (ARCES)

- Active software designer in H2020 SWAMP project (<http://swamp-project.org/>)
 - Developed the data model of the platform using as a common IoT device model the Semantic Sensor Network Ontology
 - Member of the Technical Task Force
 - Android developer for SWAMP apps
- Software engineer for a platform based on OSGi technology

Research

2015 – June 2017

Microsoft Student Partner

Microsoft Italy

- Speaker for events about Microsoft Cloud/Mobile solutions (Azure, UWP, Cortana APIs)
- Organizer of local tech events

[Advertising/ICT](https://studentpartners.microsoft.com/en-us) more about student partener program can be found here:
<https://studentpartners.microsoft.com/en-us>

March 2014 – September 2014

Software developer

JMonkeyEngine org

Took part in Google Summer of Code where I proposed an extension of a Java based editor that I made for JMonkeyEngine (<https://jmonkeyengine.org/>)

- Developed a WYSIWYG interface for a game GUI library called Nifty-GUI and integrate it with the Netbeans IDE.

Opensource organization

EDUCATION AND TRAINING

November 2017 - Now

PhD course on Structural and Environmental Health Monitoring and Management

University of Bologna (Italy)

- IoT technologies for Monitoring
- Software architectures
- Semantic technologies
- IoT protocols
- Ontology design

September 2015 - 2017 **Master of Computer Engineering (110/110 cum laude)**

University of Bologna (Italy)

Thesis: Dependable solutions for an IoT semantic broker based on OSGi

- Modern computer Architectures
- Software systems engineering
- Artificial Intelligence
- Operations research
- Data Mining
- Embedded programming
- Languages and computational models
- Intelligent Systems

September 2015 - 2017 **Bachelor of Computer Engineering (100/110)**

University of Bologna (Italy)

Thesis: Backend solutions based on Google App Engine for Android application in the healthcare domain

- Computer Architectures
- Software engineering
- Programming 1-2
- Engineering subjects
- Operating systems
- Networks
- Web technologies

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
B2++					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Job-related skills

Coding languages (experience descending order): Java, JavaScript (NodeJs), TypeScript, Go, C#, Python, C++, C
 Experience on network protocols: HTTP, MQTT, TCP, LoRa
 Embedded experience: STM32 microcontroller family, FPGA Xilinx
 DevOps: GIT, Travis-CI, Building Tools (Maven, Gradle, NPM) Docker, Bash, SSH, Jenkins, GitHub actions

Other skills

Outside from my work as a developer I like to study and create simple content about:

- Simple vector base digital drawing (Inkscape)
- UI design
- Web design

Driving licence AM, B

ADDITIONAL INFORMATION

Publications

- Testoni, Nicola; Aguzzi, Cristiano; Arditi, Valentina; Zonzini, Federica; De Marchi, Luca; Marzani, Alessandro; Cinotti, Tullio Salmon, *A Sensor Network with Embedded Data Processing and Data-to-Cloud Capabilities for Vibration-Based Real-Time SHM*, JOURNAL OF SENSORS, 2018, 2018, pp. 1 - 12
- Roffia, Luca; Azzoni, Paolo; Aguzzi, Cristiano; Viola, Fabio; Antoniazzi, Francesco; Cinotti, Tullio Salmon, *Dynamic linked data: A SPARQL event processing architecture*, FUTURE INTERNET, 2018, 10, pp. 1 - 33
- Viola, Fabio; Roffia, Luca; Antoniazzi, Francesco; D'Elia, Alfredo; Aguzzi, Cristiano; Salmon Cinotti, Tullio, *Interactive 3D Exploration of RDF Graphs through Semantic Planes*, FUTURE INTERNET, 2018, 10, pp. 1 - 30
- Aguzzi, Cristiano; Antoniazzi, Francesco; Azzoni, Paolo; Bononi, Luciano; Brasini, Francesco; Canegallo, Roberto; D'Elia, Alfredo; De Lisa, Angelo; Felice, Marco Di; Franchi, Eleonora; Perilli, Luca; Roffia, Luca; Sciullo, Luca; Siagri, Roberto; Verardi, Martina; Cinotti, Tullio Salmon, *From Heterogeneous Sensor Networks to Integrated Software Services: Design and Implementation of a Semantic Architecture for the Internet of Things at ARCES@UNIBO*, in: 2018 23rd Conference of Open Innovations Association (FRUCT), IEEE, 2018, pp. 10 - 18 (FRUCT'23, Bologna, November 13 - 16, 2018) [Conference proceedings]
- D'Elia, Alfredo; Azzoni, Paolo; Viola, Fabio; Aguzzi, Cristiano; Roffia, Luca; Salmon Cinotti, Tullio, *The OSGI SIB: A Resilient Semantic Solution for the Internet of Things*, in: Semantic Web Science and Real-World Applications, Hershey, IGI Global, 2019, pp. 48 - 74 [Book chapter]
- Zonzini, Federica; Maria Malatesta, Michelangelo; Aguzzi, Cristiano; Testoni, Nicola; Verardi, Martina; Scarponi, Valentina, *A sensor network target on a novel identification of cracks*, in: FRUCT Oy, Finland, ISSN 2305-7254, ISBN 978-952-68653-6-2, 602, 2018(atti di: FRUCT 23rd, Bologna, 14/11/2018-16/11/2018) [Conference proceedings - Poster]
- Aguzzi, Cristiano; Roffia, Luca; *SPARQL Update Processing: Extracting Inserted and Deleted Quads*, in: FRUCT'23 Proceedings of the 23rd Conference of Open Innovations Association FRUCT, FRUCT Oy, 2018, pp. 577 - 581 (Conference of Open Innovation Association, FRUCT, Bologna, November 13 - 16, 2018) [Conference proceedings - Poster]
- D'Elia, Alfredo; Aguzzi, Cristiano; Viola, Fabio; Antoniazzi, Francesco; Salmon Cinotti, Tullio, *Implementation and evaluation of the last will primitive in a semantic information broker for IoT applications*. In 2017 IEEE 3rd International Forum on Research and Technologies for Society and Industry Leveraging a better tomorrow (RTSI). IEEE.
- Sciullo, Luca; Aguzzi, Cristiano; Di Felice, Marco; Salmon Cinotti, Tullio, *WoT Store: Enabling Things and Applications Discovery for the W3C Web of Things*. In 2019 16th IEEE Annual Consumer Communications & Networking Conference (CCNC)

ANNEXES
