EUro*pass* Curriculum Vitae Cristiano Aguzzi

PERSONAL INFORMATION

Cristiano Aguzzi



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- SkypeID: relu.cri
- 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 fellowship: Ontologia per la Governance dei Dati Urbani Energetici

WORK EXPERIENCE

2020 - Now Invited Expert

World Wide Web Consortium - Web of Things Working Group

Editor of the W3C note of Web of Things Scripting API. Active member in the standardization of other architectural elements like:

- Thing Description
- Discovery
- Security

Standardization

2020 Co-Teacher

Course of "Things that Compute and Interact" at Bologna Business School

Education

April 2017 – 2020

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 more about student partener program can be found here: https://studentpartners.microsoft.com/en-us

Curriculum Vitae

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	
C1	C1	B2	B2	B2
		B2++		

English

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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 Xlinix

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

A, B

ADDITIONAL INFORMATION

Publications

- Aguzzi, Cristiano; Gigli, Lorenzo; Sciullo, Luca; Trotta, Angelo; Di Felice, Marco, From Cloud to Edge: Seamless Software Migration at the Era of the Web of Things, IEEE Access, 8, ,228118-228135,2020, IEEE
- Zonzini, Federica; Aguzzi, Cristiano; Gigli, Lorenzo; Sciullo, Luca; Testoni, Nicola; De Marchi, Luca; Di Felice, Marco; Cinotti, Tullio Salmon; Mennuti, Canio; Marzani, Alessandro, Structural Health Monitoring and Prognostic of Industrial Plants and Civil Structures: A Sensor to Cloud Architecture, IEEE Instrumentation & Measurement Magazine,23,9,21-27,2020,IEEE
- · Sindaco, Simone; Nanni, Stefania; Aguzzi, Cristiano; Roffia, Luca; Cinotti, Tullio Salmon, Enabling Context Aware Tuning of Low Power Sensors for Smart Agriculture, 2020 IEEE International Workshop on Metrology for Agriculture and Forestry (MetroAgriFor) 114-118, 2020, IEEE
- Kleinschmidt, João H; Kamienski, Carlos; Prati, Ronaldo C; Kolehmainen, Kari; Aguzzi, Cristiano; End-to-End Security in the IoT Computing Continuum: Perspectives in the SWAMP Project, 2019 9th Latin-American Symposium on Dependable Computing (LADC) 1-2, 2019, IEEE
- Brunelli, Davide; Cinotti, Tullio Salmon; Woehrl, Hugo; Aguzzi, Cristiano; Montori, Federico; Benini, Luca, An interoperable tool-chain for energy monitoring applications, 2019 AEIT International Annual Conference (AEIT) 1-6, 2019, IEEE
- Sciullo, Luca; Aguzzi, Cristiano; Di Felice, Marco; Salmon Cinotti, Tulio, WoT Store: Enabling Things and Applications Discovery for the W3C Web of Things. In 2019 16th IEEE Annual Consumer Communications & Networking Conference (CCNC)
- 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]
- 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.
- 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



Curriculum Vitae

Replace with First name(s) Surname(s)

- 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]
- 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.

ANNEXES