

# Curriculum vitae

## PERSONAL INFORMATION

### Lorenzo Gabriele



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## PREFERRED JOB

### Scala Engineer

## WORK EXPERIENCE

12/2017

### Developed Vim like Atom Plugin on [freelancer.com](#)

- Developed a full Vim-like Atom plugin using Scala.js meeting all the application requirements in half the time given to do the project.
- These are the employer's words: "Lorenzo was an amazing freelancer. He did everything exceptionally and on time! Would definitely hire him again! Thank you"

05/2016–06/2016

### IOS Developer

R2G Free, Milan (Italy)

- Developing IOS and IWatch application for a major Italian bank

## EDUCATION AND TRAINING

01/10/2016–12/04/2019

### Master Degree in Computer Science Engineering

EQF level 7

University of Calabria, Rende (Cosenza) (Italy)

Thesis: Citation networks analysis using PageRank and collaboration relationships.

Degree grade: 106 / 110

- High level systems architecture design (designing from ground up full stack applications with SPAs, databases integration etc.)
- Low level performance programming (achieved 3x speedup on highly optimized C code on gcc -O3 using x64 assembly, manual loop vectorization and Advanced AVX techniques)
- Embedded systems programming ( Designed and realized an High Precision PID algorithm to maintain the perfect temperature on a Home Espresso machine using AVR controllers only (no Arduino facilities))
- Domotics systems (studied all the main Domotics systems like KNX and realized a distributed wireless alternative using EPS8266 integrated board)
- Operative research, statistics and floating point calculus

01/10/2012–15/03/2016

### Bachelor Degree in Computer Science Engineering

EQF level 6

University of Calabria, Rende (Cosenza) (Italy)

Thesis: Reactive Programming in Scala. State machine execution framework development.

Degree grade: 102 / 110

- Basic programming and systems design.
- Developed projects from very low level to very high level of abstraction.
- Automation systems basics.

- Low level hardware design in VHDL.

## PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B2	B2	B1	B1	B2

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

Job-related skills

- Very good knowledge of the Scala language (and its backends Scala.js and Scala Native) and its ecosystem (contributor to many libraries)  
- Very good Java language knowledge (language chosen by University for many of its courses)  
- Knowledge of many other programming languages (C, Python, Nim, Objective C, Swift, Javascript)  
- Knowledge of the web stack (Html, CSS, Javascript)  
- Knowledge of the main SQL DBMS (Oracle, MySQL, Postgres, Sqlite)

Digital skills

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

Digital skills - Self-assessment grid

Other skills

- Audio Engineering: I have a small recording studio and can record, mix and master high quality music and voiceovers

Driving licence

B

## ADDITIONAL INFORMATION

Certifications

- Functional Programming in Scala Specialization  
- Functional Programming Principles in Scala  
- Functional Program Design in Scala  
- Parallel Programming  
- Big Data Analysis with Scala and Spark

Projects

- SNiPY, a bridge to Call python code from Scala Native at almost zero cost. <https://github.com/loigab/snipy>  
- scalaui, Scala Native wrapper for libui native gui framework. <https://github.com/loigab/scalaui>  
- Ported many Scala libraries to Scala Native: reactify, BooPickle, uPickle, scribe.






## Lorenzo Gabriele

Mother tongue(s)  
Italian

Foreign language(s)  
English, Spanish






### English

#### Self-assessment of language skills

UNDERSTANDING		SPEAKING		WRITING
 Listening	 Reading	 Spoken interaction	 Spoken production	 Writing
<b>C1</b> Proficient user	<b>C1</b> Proficient user	<b>C1</b> Proficient user	<b>C1</b> Proficient user	<b>C1</b> Proficient user

### Spanish






#### Self-assessment of language skills

UNDERSTANDING		SPEAKING		WRITING
 Listening	 Reading	 Spoken interaction	 Spoken production	 Writing
<b>B2</b> Independent user	<b>B2</b> Independent user	<b>B1</b> Independent user	<b>B1</b> Independent user	<b>B2</b> Independent user

#### Linguistic and intercultural experience

Description	Duration
<b>Using languages for study or training:</b> Erasmus internship at Computer Science Engineering course of Huelva University (ES)	2/2/18–25/6/18

# Common European Framework of Reference for Languages - Self-assessment grid

		A1 Basic user	A2 Basic User	B1 Independent user	B2 Independent user	C1 Proficient user	C2 Proficient user
Understanding	 Listening	I can understand familiar words and very basic phrases concerning myself, my family and immediate concrete surroundings when people speak slowly and clearly.	I can understand phrases and the highest frequency vocabulary related to areas of most immediate personal relevance (e.g. very basic personal and family information, shopping, local area, employment). I can catch the main point in short, clear, simple messages and announcements.	I can understand the main points of clear standard speech on familiar matters regularly encountered in work, school, leisure, etc. I can understand the main point of many radio or TV programmes on current affairs or topics of personal or professional interest when the delivery is relatively slow and clear.	I can understand extended speech and lectures and follow even complex lines of argument provided the topic is reasonably familiar. I can understand most TV news and current affairs programmes. I can understand the majority of films in standard dialect.	I can understand extended speech even when it is not clearly structured and when relationships are only implied and not signalled explicitly. I can understand television programmes and films without too much effort.	I have no difficulty in understanding any kind of spoken language, whether live or broadcast, even when delivered at fast native speed, provided I have some time to get familiar with the accent.
	 Reading	I can understand familiar names, words and very simple sentences, for example on notices and posters or in catalogues.	I can read very short, simple texts. I can find specific, predictable information in simple everyday material such as advertisements, prospectuses, menus and timetables and I can understand short simple personal letters.	I can understand texts that consist mainly of high frequency everyday or job-related language. I can understand the description of events, feelings and wishes in personal letters.	I can read articles and reports concerned with contemporary problems in which the writers adopt particular attitudes or viewpoints. I can understand contemporary literary prose.	I can understand long and complex factual and literary texts, appreciating distinctions of style. I can understand specialised articles and longer technical instructions, even when they do not relate to my field.	I can read with ease virtually all forms of the written language, including abstract, structurally or linguistically complex texts such as manuals, specialised articles and literary works.
Speaking	 Spoken interaction]	I can interact in a simple way provided the other person is prepared to repeat or rephrase things at a slower rate of speech and help me formulate what I'm trying to say. I can ask and answer simple questions in areas of immediate need or on very familiar topics.	I can communicate in simple and routine tasks requiring a simple and direct exchange of information on familiar topics and activities. I can handle very short social exchanges, even though I can't usually understand enough to keep the conversation going myself.	I can deal with most situations likely to arise whilst travelling in an area where the language is spoken. I can enter unprepared into conversation on topics that are familiar, of personal interest or pertinent to everyday life (e.g. family, hobbies, work, travel and current events).	I can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible. I can take an active part in discussion in familiar contexts, accounting for and sustaining my views.	I can express myself fluently and spontaneously without much obvious searching for expressions. I can use language flexibly and effectively for social and professional purposes. I can formulate ideas and opinions with precision and relate my contribution skilfully to those of other speakers.	I can take part effortlessly in any conversation or discussion and have a good familiarity with idiomatic expressions and colloquialisms. I can express myself fluently and convey finer shades of meaning precisely. If I do have a problem I can backtrack and restructure around the difficulty so smoothly that other people are hardly aware of it.
	 Spoken production	I can use simple phrases and sentences to describe where I live and people I know.	I can use a series of phrases and sentences to describe in simple terms my family and other people, living conditions, my educational background and my present or most recent job.	I can connect phrases in a simple way in order to describe experiences and events, my dreams, hopes and ambitions. I can briefly give reasons and explanations for opinions and plans. I can narrate a story or relate the plot of a book or film and describe my reactions.	I can present clear, detailed descriptions on a wide range of subjects related to my field of interest. I can explain a viewpoint on a topical issue giving the advantages and disadvantages of various options.	I can present clear, detailed descriptions of complex subjects integrating sub-themes, developing particular points and rounding off with an appropriate conclusion.	I can present a clear, smoothly-flowing description or argument in a style appropriate to the context and with an effective logical structure which helps the recipient to notice and remember significant points.
Writing	 Writing	I can write a short, simple postcard, for example sending holiday greetings. I can fill in forms with personal details, for example entering my name, nationality and address on a hotel registration form.	I can write short, simple notes and messages. I can write a very simple personal letter, for example thanking someone for something.	I can write simple connected text on topics which are familiar or of personal interest. I can write personal letters describing experiences and impressions.	I can write clear, detailed text on a wide range of subjects related to my interests. I can write an essay or report, passing on information or giving reasons in support of or against a particular point of view. I can write letters highlighting the personal significance of events and experiences.	I can express myself in clear, well-structured text, expressing points of view at some length. I can write about complex subjects in a letter, an essay or a report, underlining what I consider to be the salient issues. I can select a style appropriate to the reader in mind.	I can write clear, smoothly-flowing text in an appropriate style. I can write complex letters, reports or articles which present a case with an effective logical structure which helps the recipient to notice and remember significant points. I can write summaries and reviews of professional or literary works.

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