

Alex Saletti



About me

Based in Lecco, IT

General I am fond of IoT and software development, including test and debug activities; I describe myself as a precise, flexible and reliable person, I have always been interested in learning new subjects and improve my knowledge. I like problem solving (challenges in general) and I already took part to a team, with an approach that is open to conversation and constructive criticism.

Available to Work on site, travel on business (max 50% of time) and smartworking.

Goals From a business perspective, I'd like to become an experienced SW developer (preferred prog. languages: Java, C++, Javascript, Python) and work with IoT devices; The ideal position I aspire to should offer growth opportunities and not be horizontal.

Contacts

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Answer within 1-2 days

Answer within 10 days

No answer, repositories consultation only

Monday-Friday 9:00-18:00

Answer within 1-2 hours, incom. calls are filtered

Languages

Italian Native

English Good

German Work in progress

Certificate: TOEIC (Listening score: B2++, Reading score: C1)

Education

2020–2022 **Computer Science and Engineering (EN)**, *Master's degree*, Politecnico di Milano
Score 104

2016–2020 **Ingegneria Informatica (IT)**, *Bachelor's degree*, Politecnico di Milano
Score 89

2010–2016 **Liceo Scientifico Tradizionale**, *High school diploma*, IIS Lorenzo Rota

Further studies

08/2023–11/2023 **Advanced course in Python programming**, University of Helsinki

12/2023– **Java programming**, University of Helsinki

Master thesis

Title *Storage-accuracy analysis for CSI-based human activity detection: an IoT forensic perspective*

Supervisors Professor Alessandro Enrico Cesare Redondi, Computer Engineer Fabio Palmese

Description I started working on my thesis on March 2022; my main goal was to discover a possible correlation between CSI data, obtained by analyzing signals exchanged between IoT devices, and what is happening in the surrounding environment; After I found out that such correlation exists, so a further goal was to train and determine the accuracy of a binary classifier that should be able to detect human movement by analyzing CSI.

Experience

Current: Rainus Sagl

Location Morbio Inferiore, Canton Ticino, Svizzera

description A multinational company that produces and sells Electronic Shelf Labels (ESL) to shops worldwide.

Role IT & Technical engineer: my current role consists in the following tasks:

- ESL system configuration (server and antennas set up), ESL layout design (also by using Python);
- Writing Python scripts to automatize crucial processes (maintenance, monitor the status of 400+ stores by communicating with our systems via API, collect data and analyze them to produce stats), update existing features according to customers needs;
- coordination of workers teams that are installing ESL in multiple shops in Italy at the same time (up to 30 people in total, up to 5 installation activities in parallel);

Due to the nature of my job, I am away from home/office almost 100% of time.

Unrelated

Description I have been doing the following jobs in order to keep up with my studies

04/2018–12/2022 **Food delivery**, *Pizzeria Il Sorriso*, Torre de'Busi (BG)

03/2018–03/2018 **HP products promoter**, *Praesidium S.p.a.*, *Mediaworld*, Lecco

11/2017–02/2018 **Shop assistant**, *Mediaworld*, Lecco

Skills and projects

Mathematics skills

- I like almost every branch of math, from logic and algebra to probability and statistics, geometry too; I tutored some university and high school students in the past years.

Computer engineering skills

- software development and team projects (e.g. the various dev. phases including testing, some IDEs usage and Git versioning system functionality; [here](#) [1] you can find a simple CLI multiplayer online videogame that my colleagues and I developed in Java as 3y thesis);
- client-server and other architectures (e.g. p2p, in the aforementioned videogame we implemented a model-view-controller pattern; [here](#) [2] you can find a 3-tier application I developed, in particular the code for DB connection and dynamic website generation using thymeleaf and [here](#) [3] using JavaScript);
- data (data inspection, manipulation, plotting and statistics using Pandas and MATLAB) and data bases (MySQL DB creation, querying and maintenance, JDBC and basics of JPA);
- network infrastructures and networking (routing mechanisms, OSI model layers and main protocols, wireless networks (WiFi, Bluetooth, ad hoc networks, Mobile IP, TCP over wireless,...));
- IoT (main protocols, e.g. CoAP and MQTT, and communication technologies, e.g. LoraWAN, simulation using Cooja, packet collection and inspection using WireShark, Tiny OS and nesC basics);

- miscellaneous: computer graphics basics (Vulkan, GLSL), distributed systems basics, advanced CPU architectures and computing infrastructures basics.
- OS: lately I am using windows 11, I have experience with Kali and Ubuntu

Programming skills and OSs knowledge

Level	Language/OS	Years	Comment
■■■■■	C	5	<i>Here [4] there a is full implementation of an "entity and relation manager" I wrote as part of my bachelor's degree thesis (I mainly use CLion IDE).</i>
■■■■■	Java	3	<i>It's the first OO programming language I learned, I took part to a 3-people group project consisting in an online game development (socket and RMI solutions are adopted, only CLI is implemented); I also developed a website using Servlets, JDBC and Thymeleaf that can be deployed on an Apache Tomcat local server; I mainly use IntelliJ IDE and Git versioning tool. Currently I am attending a Java course to keep me trained.</i>
■■■■■	Python	3	<i>I mostly use Pandas library for data manipulation and stats production; here [6] there is a collection of scripts I'm writing for master thesis in order to parse CSI data. Furthermore I just completed a course about the advanced features of this language.</i>
■■■■■	MySQL	3	<i>A MySQL local server hosting a DB was used as part of all my university projects requiring a persistent storage; I studied Java EE beans, transactions safety and Java Persistence API.</i>
■■■■■	JavaScript	1.5	<i>I developed the aforementioned website in an alternative way, using Javascript instead of Thymeleaf; I used Node-Red flows for data manipulation.</i>
■■■■■	C++	0.5	<i>A colleague of mine and I developed a Vulkan application consisting in a missile simulator starting from a template, here [5] you can find the full project. I use Visual Studio and Git versioning tool.</i>

Additional information

- Personal data processing (Only for Switzerland) I authorize the processing of my data in compliance with the Swiss laws and regulations on Privacy (LPD, N.235.1 of 19.06.92).
- About this CV I wrote this curriculum vitae in \LaTeX , if you find any bugs or private repositories please report them by email; note also that I have inserted some hyper-textual links (e.g. contacts and Github repositories) that will be lost if the CV is printed.
- CV updates Current version: 23.12.0. You can check for latest version of my resume and download it by visiting my public repository at <https://github.com/VLEXX/Resume>. An italian version of this document is available in the same repository.